

Cisco Compute Hyperconverged with Nutanix

HCIAF240C M7 All-NVMe/All-Flash Server

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https://www.cisco.com/c/en/us/products/hyperconverged-infrastructure/compute-hyperconverged/datasheet-listing.html



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CONTENTS

OVERVIEW	
DETAILED VIEWS	
Chassis Front View - (HCIAF240C-M7SN)	
Chassis Rear View - (HCIAF240C-M7SN)	
Chassis Front View - (HCIAF240C-M7SX)	
Chassis Rear View - (HCIAF240C-M7SX)	
BASE SERVER STANDARD CAPABILITIES and FEATURES	
CONFIGURING the SERVER	
STEP 1 SELECT SERVER SKU	
STEP 2 SELECT MANAGMENT MODE (REQUIRED)	
STEP 3 SELECT RISER CARDS (REQUIRED)	
STEP 4 SELECT CPU(s) (REQUIRED)	
STEP 5 SELECT MEMORY (REQUIRED)	
Memory configurations and mixing rules	
STEP 6 SELECT DRIVE CONTROLLERS (REQUIRED)	
STEP 7 SELECT DRIVES (REQUIRED)	
Select Drives - HCIAF240C-M7SN (All-NVMe)	
Select Drives - HCIAF240C-M7SX (All-Flash)	
STEP 8 SELECT CISCO COMPUTE HYPERCONVERGED CONNECTIVITY (REQUIRED)37	
A. FI Managed Mode - HCl connectivity:	
B. Intersight Standalone Mode (IS Managed) - HCI connectivity:	
STEP 9 SELECT PCIe CARD(s) (OPTIONAL FOR FI MANAGED MODE)	
ORDER OPTIONAL PCIe OPTION CARD ACCESSORIES	
STEP 10 ORDER GPU CARDS (OPTIONAL)	
STEP 11 ORDER POWER SUPPLY (REQUIRED)	
STEP 12 SELECT INPUT POWER CORD(s) (REQUIRED)	A I \
STEP 13 ORDER TOOL-LESS RAIL KIT (REQUIRED) AND REVERSIBLE CABLE MANAGEMENT ARM (OPTION, 49	AL)
STEP 14 ORDER SECURITY DEVICES (REQUIRED)	
STEP 15 SELECT HYPERVISOR	
STEP 16 SELECT NUTANIX SOFTWARE AND NUTANIX PROFESSIONAL SERVICES	
Top Level Nutanix Software And Professional Services PIDs	
Nutanix Software And Professional Services PID Decoder	
Nutanix Software PIDs and Description	
Professional Services PIDs and Description	
Nutanix Support:	
Software With Professional Services PID Mapping	
STEP 17 CISCO INTERSIGHT	
SUPPLEMENTAL MATERIAL 113	
Retrofit of Existing UCS Servers	
Chassis	
Risers	
Riser Card Configurations and Options	
Riser 1A	
Riser 1C	
Riser 2A	
Riser 2C	
Riser 3A	
Picor 3C 124	

CONTENTS

Serial Port Details	 . 125
KVM Cable	 . 125
UPGRADING or REPLACING CPUs and Memory	 126
5TH GEN INTEL XEON BENEFIT PILLARS	 127
Intel® Xeon® Processors Notices and Disclaimers	 . 128
LEADERSHIP PERFORMANCE WITH 4TH GEN INTEL® XEON® PROCESSORS	 129
Intel® Xeon® Processors Notices and Disclaimers	 . 130
TECHNICAL SPECIFICATIONS	 131
Dimensions and Weight	 . 131
Power Specifications	 . 133
Environmental Specifications	
Extended Operating Temperature Hardware Configuration Limits	
Compliance Requirements	 . 139

OVERVIEW

Cisco Compute Hyperconverged with Nutanix is a hyperconverged infrastructure solution integrating Cisco's best-in-class compute (Cisco Unified Computing System), datacenter networking, and SaaS infrastructure management platform (Cisco Intersight) with Nutanix's market-leading hyperconverged storage software, Nutanix Cloud Platform.

The Cisco Compute Hyperconverged with Nutanix family of appliances delivers pre-configured UCS servers that are ready to be deployed as nodes to form Nutanix clusters in a variety of configurations. Each server appliance contains three software layers: UCS server firmware, hypervisor (Nutanix AHV), and hyperconverged storage software (Nutanix AOS).

Physically, nodes are deployed into clusters, with a cluster consisting of Cisco Compute Hyperconverged All-Flash Servers. Clusters support a variety of workloads like virtual desktops, general-purpose server virtual machines in edge, data center and mission-critical high-performance environments.

The Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Server harnesses the power of the latest Intel® Xeon® Scalable Processors, and offers the following:

CPU:

- Up to 2x 5th Generation Intel® Xeon® Scalable Processors with up to 64 cores per processor or
- Up to 2x 4th Generation Intel® Xeon® Scalable Processors with up to 60 cores per processor

Memory:

- Up to 8TB with 32 x 256GB DDR5-5600 DIMMs, in a 2-socket configuration with 5th Gen. Intel® Xeon® Scalable Processors or
- Up to 8TB with 32 x 256GB DDR5-4800 DIMMs, in a 2-socket configuration with 4th Gen. Intel® Xeon® Scalable Processors

There are two servers to choose from:

- HCIAF240C-M7SN (All-NVMe) (see *Figure 1 on page 5*):
 - Up to 24 front facing SFF NVMe SSDs (drives are direct-attach to PCle Gen4 x2)
- HCIAF240C-M7SX (All-Flash) (see *Figure 1 on page 5*):
 - Up to 24 front facing SFF SAS/SATA SSDs

Cluster Scale: Nutanix clusters can be scaled out to the max cluster server limit documented by Nutanix. The minimum depends on the management mode

These servers can be interconnected and managed in two different ways:

UCS Managed mode: The nodes are connected to a pair of Cisco UCS® 6400 Series or a pair of Cisco UCS 6500 Series fabric interconnects and managed as a single system using UCS Manager. The minimum number of nodes in such a cluster is three. These clusters can support both general-purpose deployments and mission-critical high-performance environments.



NOTE: One-node and two-node clusters are not supported with this solution.

Intersight Standalone mode: The nodes are connected to a pair of Top-of-Rack (ToR) switches and servers are centrally managed using Cisco Intersight®. While a minimum of three nodes are required to deploy a standard Nutanix cluster, we also offer an option to deploy a single node cluster and a two-node cluster for Edge and branch locations and situations that already have a high-performance network fabric installed. Refer to Nutanix documentation on single node.

See *Figure 1 on page 5* for front and rear views of all the configurations of the Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers.

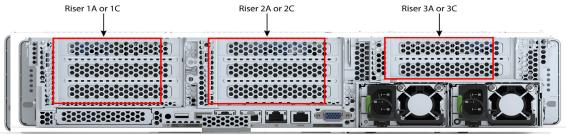
Figure 1 Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers HCIAF240C-M7SN (All-NVMe)

Up to 24 front facing SFF NVMe SSDs only (drives are direct-attach to PCle Gen4 x2)

Front View (all slots shown unpopulated - see *Figure 4 on page 9* for details)



Rear View (all slots shown unpopulated - see Figure 5 on page 10 for details)



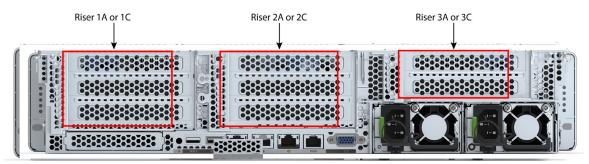
HCIAF240C-M7SX (All-Flash)

Up to 24 front facing SFF SAS/SATA SSDs

Front View (all slots shown unpopulated - see *Figure 2 on page 6* for details)



Rear View (all slots shown unpopulated - see *Figure 3 on page 7* for details)

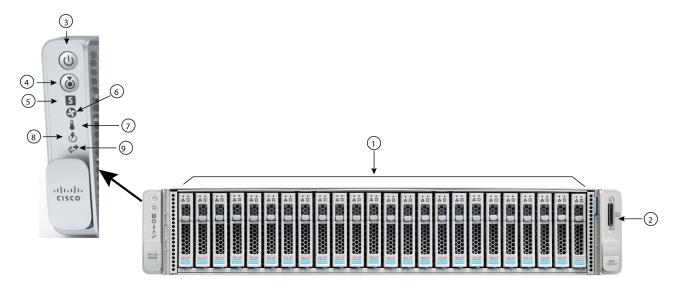


DETAILED VIEWS

Chassis Front View - (HCIAF240C-M7SN)

Figure 2 shows the front view of Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe Server configured with 24 drives.

Figure 2 Chassis Front View (HCIAF240C-M7SN)



1	Drive bays 1 - 24 support NVMe PCIe drives (only) ¹	6	Fan status LED
2	KVM connector (used with KVM cable that provides two USB 2.0, one VGA, and one serial connector)	7	Temperature status LED
3	Power button/Power status LED	8	Power supply status LED
4	Unit Identification button/LED	9	Network link activity LED
5	System status LED	-	-

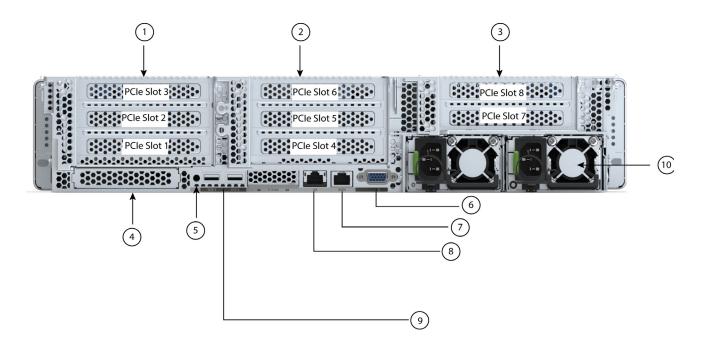
Notes:

1. If NVMe drives are selected, you must also select 2 CPUs.

Chassis Rear View - (HCIAF240C-M7SN)

Figure 5 shows the external features of the rear panel.

Figure 3 Chassis Rear View (HCIAF240C-M7SN)

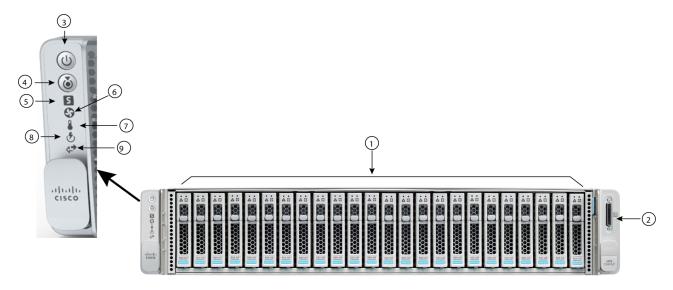


1	There are three Riser 1 options:	6	VGA display port
	Riser 1A (Gen 4, CPU1 control)		(DB15 connector)
	Supports three Gen 4 PCIe slots:		
	■ Slot 1 is full-height, 3/4 length, x8, NCSI, single wide GPU		
	■ Slot 2 is full-height, full-length, x16, NCSI, single/double wide GPU		
	■ Slot 3 is full-height, full-length, x8, no NCSI, single wide GPU		
	Riser 1C (Gen 5, CPU1 control)		
	Supports two Gen 5 PCle slots:		
	■ Slot 1 is full-height, 3/4 length, x16, NCSI, single wide GPU		
	■ Slot 2 is full-height, full-length, x16, no NCSI, single/double wide GPU		
2	There are two Riser 2 options:	7	COM port (RJ45
	Riser 2A (Gen 4, CPU2 control)		connector)
	Supports three Gen 4 PCIe slots:		
	■ Slot 4 is full-height, 3/4 length, x8, NCSI, single wide GPU		
	■ Slot 5 is full-height, full-length, x16, NCSI, single/double wide GPU		
	■ Slot 6 is full-height, full length, x8, no NCSI, single wide GPU		
	Riser 2C (Gen 5, CPU2 control)		
	Supports two Gen 5 PCle slots:		
	■ Slot 4 is full-height, 3/4 length, x16, NCSI, single wide GPU		
	■ Slot 5 is full-height, full-length, x16, no NCSI, single/double wide GPU		
3	There are three Riser 3 options	8	1 GbE dedicated Ethernet
	Riser 3A (CPU2 control)		management port
	Supports two PCIe slots:		
	■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU		
	■ Slot 8 is full-height, full-length, x8, no NCSI, single wide GPU		
	Riser 3C (for GPU, CPU2 control)		
	Supports one PCIe Slot:		
	■ Slot 7 is one full-height, full-length, x16, no NCSI,double wide GPU		
	■ Slot 8 is blocked by double wide GPU (not used)		
4	Modular LAN-on-motherboard (mLOM)/OCP 3.0 card slot (x16)	9	USB 3.0 ports (two)
5	System ID pushbutton/LED	10	Power supplies (two)

Chassis Front View - (HCIAF240C-M7SX)

Figure 4 shows the front view of Cisco Compute Hyperconverged HCIAF240C M7 All-Flash Server configured with 24 front drives.

Figure 4 Chassis Front View (HCIAF240C-M7SX)

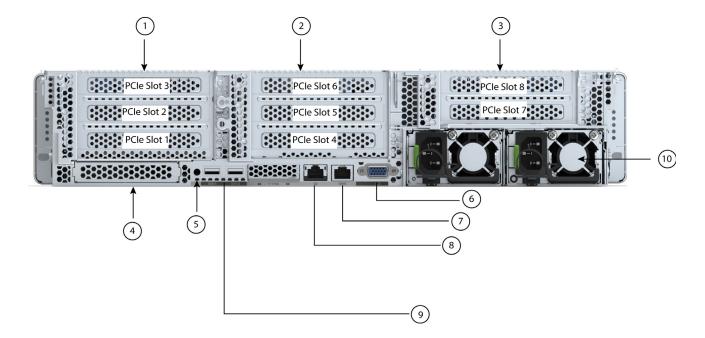


1	Drive bays 1 - 24 supports up to 24 front facing SFF SAS/SATA SSDs	6	Fan status LED
2	KVM connector (used with KVM cable that provides two USB 2.0, one VGA, and one serial connector)	7	Temperature status LED
3	Power button/Power status LED	8	Power supply status LED
4	Unit Identification button/LED	9	Network link activity LED
5	System status LED	-	-

Chassis Rear View - (HCIAF240C-M7SX)

Figure 5 shows the external features of the rear panel.

Figure 5 Chassis Rear View (HCIAF240C-M7SX)



1	There are three Riser 1 options:	6	VGA display port
	Riser 1A (Gen 4, CPU1 control)		(DB15 connector)
	Supports three Gen 4 PCIe slots:		
	■ Slot 1 is full-height, 3/4 length, x8, NCSI, single wide GPU		
	■ Slot 2 is full-height, full-length, x16, NCSI, single/double wide GPU		
	■ Slot 3 is full-height, full-length, x8, no NCSI, single wide GPU		
	Riser 1C (Gen 5, CPU1 control)		
	Supports two Gen 5 PCIe slots:		
	■ Slot 1 is full-height, 3/4 length, x16, NCSI, single wide GPU		
	■ Slot 2 is full-height, full-length, x16, no NCSI, single/double wide GPU		
2	There are two Riser 2 options:	7	COM port (RJ45
	Riser 2A (Gen 4, CPU2 control)		connector)
	Supports three Gen 4 PCIe slots:		
	■ Slot 4 is full-height, 3/4 length, x8, NCSI, single wide GPU		
	■ Slot 5 is full-height, full-length, x16, NCSI, single/double wide GPU		
	■ Slot 6 is full-height, full length, x8, no NCSI, single wide GPU		
	Riser 2C (Gen 5, CPU2 control)		
	Supports two Gen 5 PCIe slots:		
	■ Slot 4 is full-height, 3/4 length, x16, NCSI, single wide GPU		
	■ Slot 5 is full-height, full-length, x16, no NCSI, single/double wide GPU		
3	There are three Riser 3 options	8	1 GbE dedicated Ethernet
	Riser 3A (CPU2 control)		management port
	Supports two PCIe slots:		
	■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU		
	■ Slot 8 is full-height, full-length, x8, no NCSI, single wide GPU		
	Riser 3C (for GPU, CPU2 control)		
	Supports one PCIe Slot:		
	■ Slot 7 is one full-height, full-length, x16, no NCSI, double wide GPU		
	■ Slot 8 is blocked by double wide GPU (not used)		
4	Modular LAN-on-motherboard (mLOM)/OCP 3.0 card slot (x16)	9	USB 3.0 ports (two)
5	System ID pushbutton/LED	10	Power supplies (two)

BASE SERVER STANDARD CAPABILITIES and FEATURES

Table 1 lists the capabilities and features of the base server. Details about how to configure the server for a particular feature or capability (for example, number of processors, disk drives, or amount of memory) are provided in **CONFIGURING the SERVER**, **page 14**.

Table 1 Capabilities and Features

Capability/ Feature	Description
Chassis	Two rack unit (2RU) chassis
CPU	One or two 5 th Gen. Intel® Xeon® Scalable Processors or One or two 4 th Gen. Intel® Xeon® Scalable Processors.
	■ Each CPU has 8 channels with up to 2 DIMMs per channel, for up to 16 DIMMs per CPU.
	■ UPI Links: Up to 4 at 20GT/s
Chipset	Intel® C741 series chipset
Memory	32 total DDR5-5600 MT/s DIMM slots with 5 th Gen. Intel [®] Xeon [®] Scalable Processors (16 per CPU) or 32 total DDR5-4800 MT/s DIMM slots with 4 th Gen. Intel [®] Xeon [®] Scalable Processors
	■ Up to 8TB DDR5-5600 DIMM memory capacity (32x 256GB DIMMs) with 5 th Gen. Intel [®] Xeon [®] Scalable Processors or Up to 8TB DDR5-4800 DIMM memory capacity (32x 256GB DIMMs) with 4 th Gen. Intel [®] Xeon [®] Scalable Processors
	 75% peak bandwidth increase over DDR4-3200, with on-die ECC; all densities are Registered DIMMs (RDIMMs)
Video	The Cisco Integrated Management Controller (CIMC) provides video using the Matrox G200e video/graphics controller:
	■ Integrated 2D graphics core with hardware acceleration
	■ Embedded DDR memory interface supports up to 512 MB of addressable memory (8 MB is allocated by default to video memory)
	■ Supports display resolutions up to 1920 x 1200 16bpp @ 60Hz
	■ High-speed integrated 24-bit RAMDAC
	■ Single lane PCI-Express host interface running at Gen 1 speed
Power	Up to two of the following hot-swappable power supplies:
subsystem	■ 1050 W (DC)
	■ 1200 W (AC)
	■ 1600 W (AC)
	■ 2300 W (AC)
	One power supply is mandatory; one more can be added for 1 + 1 redundancy.
Fans	Six hot-swappable fans for front-to-rear cooling
Front Panel	A front panel controller provides status indications and control buttons.
ACPI	This server supports the advanced configuration and power interface (ACPI) 6.2 standard.

Capability/ Feature	Description
Expansion slots	 Riser 1A (three Gen 4 PCle slots) Riser 1C (two Gen 5 PCle slots) Riser 2A (three Gen 4 PCle slots) Riser 2C (two Gen 5 PCle slots) Riser 3A (two Gen 4 PCle slots)
	Riser 3C (one full-length, double-wide GPU) Solution For more details on the variations of ricer 1, riser 2, and ricer 2, see Ricer Card
Internal storage	Note: For more details on the variations of riser 1, riser 2, and riser 3, see <i>Riser Card Configurations and Options</i> , page 117. Drive Storage:
devices	The server is orderable in two different versions: HCIAF240C-M7SN:
	 Three to twenty-four front NVMe (only) drives.
	Note: Two CPUs are required when choosing NVMe SSDs
	■ HCIAF240C-M7SX:
	Two to twenty-four SAS/SATA SSD or Two to twenty-four SED SAS/SATA SSD
	Other storage:
	A mini-storage module connector on the motherboard supports a boot-optimized RAID controller carrier that holds up to two SATA M.2 SSDs used for hypervisor boot.
Storage controllers	■ Cisco 12G SAS HBA
controtters	No RAID support
	JBOD/Pass-through Mode support
44 1 1 1 441	Supports up to 14 SAS/SATA internal drives The latest term of the state of th
Modular LAN on Motherboard (mLOM)	The dedicated mLOM/OCP 3.0 slot on the motherboard can flexibly accommodate the following cards:
, ,	■ Cisco Virtual Interface Cards
Interfaces	■ Rear panel:
	One 1Gbase-T RJ-45 management port One PS 333 apriel part (PL45 appropriate)
	One RS-232 serial port (RJ45 connector) One RR45 VGA assume that
	One DB15 VGA connector Two USB 3 0 part connectors
	 Two USB 3.0 port connectors One flexible modular LAN on motherboard (mLOM)/OCP 3.0 slot that can accommodate various interface cards.
	Front panel:
	 One KVM console connector (supplies two USB 2.0 connectors, one VGA DB15 video connector, and one serial port (RS232) RJ45 connector)
Integrated management	Baseboard Management Controller (BMC) running Cisco Integrated Management Controller (CIMC) firmware.
processor	Depending on your CIMC settings, the CIMC can be accessed through the 1GE dedicated management port, the 1GE/10GE LOM ports, or a Cisco virtual interface card (VIC).
laka watali t	CIMC manages certain components within the server, such as the Cisco 12G SAS HBA.
Intersight	Intersight provides server management capabilities Gisco Integrated Management Controller 4 2(1) or later
CIMC	Cisco Integrated Management Controller 4.3(1) or later

CONFIGURING the SERVER

Follow these steps to configure the Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers:

- STEP 1 SELECT SERVER SKU, page 15
- STEP 2 SELECT MANAGMENT MODE (REQUIRED), page 16
- STEP 3 SELECT RISER CARDS (REQUIRED), page 17
- STEP 4 SELECT CPU(s) (REQUIRED), page 19
- STEP 5 SELECT MEMORY (REQUIRED), page 25
- STEP 6 SELECT DRIVE CONTROLLERS (REQUIRED), page 32
- STEP 7 SELECT DRIVES (REQUIRED), page 33
- STEP 8 SELECT CISCO COMPUTE HYPERCONVERGED CONNECTIVITY (REQUIRED), page 37
- STEP 9 SELECT PCIe CARD(s) (OPTIONAL FOR FI MANAGED MODE), page 39
- STEP 10 ORDER GPU CARDS (OPTIONAL), page 42
- STEP 11 ORDER POWER SUPPLY (REQUIRED), page 44
- STEP 12 SELECT INPUT POWER CORD(s) (REQUIRED), page 45
- STEP 13 ORDER TOOL-LESS RAIL KIT (REQUIRED) AND REVERSIBLE CABLE MANAGEMENT ARM (OPTIONAL), page 49
- STEP 14 ORDER SECURITY DEVICES (REQUIRED), page 50
- STEP 15 SELECT HYPERVISOR, page 51
- STEP 16 SELECT NUTANIX SOFTWARE AND NUTANIX PROFESSIONAL SERVICES, page 52
- STEP 17 CISCO INTERSIGHT, page 110

STEP 1 SELECT SERVER SKU

Top level ordering product ID (PID) is shown in Table 2

Table 2 Top level ordering PID (major line bundle)

Product ID (PID)	Description
HCI-M7-MLB	Cisco Compute Hyperconverged M7 with Nutanix MLB
	This major line bundle (MLB) consists of the Cisco Compute Hyperconverged Server, with Intersight and Nutanix software PIDs.

Select one server product ID (PID) from *Table 3*.



CAUTION: This products may not be purchased outside of the approved bundles. (must be ordered under the MLB)

Table 3 PID of Cisco HCIAF240C M7 All-NVMe/All-Flash Servers

Product ID (PID)	Description
HCIAF240C-M7SN	Cisco Hyperconverged Infrastructure HCIAF240c M7 All NVMe Node
HCIAF240C-M7SX	Cisco Hyperconverged Infrastructure HCIAF240c M7 All Flash Node

The Cisco HCIAF240C M7 All-NVMe/All-Flash Servers:

- Includes a 24 drive backplane.
- Does not include power supply, CPU, memory, drives, riser 1, riser 2, riser 3, tool-less rail kit, or PCIe cards.
- Use the steps on the following pages to configure the server with the components that you want to include.

STEP 2 SELECT MANAGMENT MODE (REQUIRED)

The available management modes are listed in *Table 4*.

Table 4 Managment Modes

Product ID (PID)	Description
HCI-FI-MANAGED	Deployment mode for Server Managed by FI
HCI-IS-MANAGED	Deployment mode for Standalone Server Managed by Intersight



NOTE:

HCI Data Center with Fabric Interconnect:

- This deployment option connects the server to Cisco Fabric Interconnects operating in UCS Manager mode. The installation for this type of deployment is performed using the Nutanix Foundation VM.
- IMC standalone and Intersight Managed modes are not currently supported with this solution and UCS Manager with FIs must be used.
- UCS 4th Gen and 5th Gen fabric interconnects (6454, 64108, 6536) are supported with this solution
- If this deployment mode is selected, then HCI-MLOM from HCI Connectivity Mode must be selected from STEP 8 SELECT CISCO COMPUTE HYPERCONVERGED CONNECTIVITY (REQUIRED), page 37 and additional cards should be selected from STEP 9 SELECT PCIE CARD(s) (OPTIONAL FOR FI MANAGED MODE), page 39.

HCI with Intersight Standalone:

- This deployment option allows server nodes to be directly connected to existing Top of Rack (ToR) switches without the need for a pair of UCS Fabric Interconnects. The installation for this type of deployment must need Prism Central and Intersight.
- If this deployment mode is selected, then either HCI-MLOM or HCI-PCIE Connectivity Mode is must be selected from STEP 8 SELECT CISCO COMPUTE HYPERCONVERGED CONNECTIVITY (REQUIRED), page 37

STEP 3 **SELECT RISER CARDS (REQUIRED)**

Select desired risers from *Table 5*.



CAUTION: Mixing Gen 4 and Gen 5 Risers are not allowed with the exception of Riser 3.

Table 5 PIDs of the Risers

Product ID (PID)	Description	
Option 1		
HCI-RIS1A-24XM7	C240 M7 Riser 1A PCIe Gen4 (controlled with CPU1)	
(I/O riser, Gen 4)	■ Slot 1 is full-height, 3/4 length, x8, Supports NCSI and single wide GPU	
	■ Slot 2 is full-height, full-length, x16, Supports NCSI and single/double wide GPU	
	■ Slot 3 is full-height, full-length, x8, Supports single wide GPU	
HCI-RIS1C-24XM7	C240 M7 Riser 1C PCIe Gen 5 (controlled with CPU1)	
(I/O riser, Gen 5)	■ Slot 1 is full-height, 3/4 length, x16, Supports NCSI and single wide GPU	
	■ Slot 2 is full-height, full-length, x16, supports single/double wide GPU	
Option 2 (2-CPU mu	ust be selected)	
HCI-RIS2A-24XM7	C240 M7 Riser 2A PCIe Gen4 (controlled with CPU2)	
(I/O riser, Gen 4)	■ Slot 4 is full-height, 3/4 length, x8, Supports NCSI and single wide GPU	
	■ Slot 5 is full-height, full-length, x16, Supports NCSI and single/double wide GPU	
	■ Slot 6 is full-height, full length, x8, Supports single wide GPU	
HCI-RIS2C-24XM7	C240 M7 Riser 2C PCIe Gen5 (controlled with CPU2)	
(I/O riser, Gen 5)	■ Slot 4 is full-height, 3/4 length, x16, Supports NCSI and single wide GPU	
	■ Slot 5 is full-height, full-length, x16, Supports single/double wide GPU	
Option 3 (2-CPU mu	ust be selected)	
HCI-RIS3A-24XM7	C240 M7 Riser 3A PCIe Gen4 (controlled with CPU2)	
(I/O riser, Gen 4)	■ Slot 7 is full-height, full-length, x8	
	■ Slot 8 is full-height, full-length, x8	
HCI-RIS3C-24XM7	C240 M7 Riser 3C (controlled with CPU2)	
(GPU riser)	■ Slot 7 is one full-height, full-length, x16, Supports double wide GPU	
	■ Slot 8 is blocked by double wide GPU (not used)	
Accessories/spare included along with selected risers:		

■ UCSC-FBRS2-C240-D for riser 2 and UCSC-FBRS3-C240-D riser filler blank for riser 3 is auto included, if riser 2 or riser 3 are not selected.

NOTE: Please note, if you are adding additional risers and raid controller later, you may need to order the accessories with it.



NOTE:

- For additional details on riser cards, see *Riser Card Configurations and Options*, page 117
- For GPU support on a particular riser slot, see *Table 24 on page 42*

STEP 4 SELECT CPU(s) (REQUIRED)

The standard CPU features are:

- The 5th Gen Intel® Xeon® Scalable Processors are paired with Intel® C741 series chipset:
 - Up to 64 cores
 - Cache size of up to 320 MB
 - Power: Up to 350Watts
 - UPI Links: Up to 4 at 20GT/s

With 5th Gen Intel® Xeon® Processors, improve performance and efficiency while reducing costs. See 5TH GEN INTEL XEON BENEFIT PILLARS

- The 4th Gen Intel® Xeon® Scalable Processors are paired with Intel® C741 series chipset:
 - Up to 60 cores
 - Cache size of up to 112.50 MB
 - Power: Up to 350Watts
 - UPI Links: Up to 4 at 16GT/s

With 4th Gen Intel® Xeon® processors, improve performance efficiency for critical workloads with the most built-in accelerators. See 4th gen intel xeon benefit pillars in *LEADERSHIP PERFORMANCE WITH 4TH GEN INTEL® XEON® PROCESSORS*.

Select CPUs



NOTE: If you try to upgrade an existing M7 Server from 4th Gen CPUs to 5th Gen CPUs and there is a GPU greater than 75W installed in the server, a new GPU air duct **(UCSC-GPUAD-C240M7=)** may be required. Please refer to the **installation guide** for more details.

- The available 5th Gen Intel® Xeon® Scalable CPUs are listed in *Table 6*. See *Table 8 on page* 23 for CPU suffix notations.
- The available 4th Gen Intel® Xeon® Scalable CPUs are listed in *Table 7*. See *Table 8 on page* 23 for CPU suffix notations.



CAUTION:

- Normal operating temperature is limited to 35° C [95° F], for the 2U NVMe/SAS SKU, and is lowered to 28° C [82.4° F], with a fan fault. When rear drives are installed, the normal operating temperature is lowered to 30° C [86° F], and 26° C [78.8° F], respectively with a fan fault.
- With multiple GPU>75W installed, normal operating temperature is 30° C [86° F], lowered to 25° C [77° F], with a fan fault.
- When a GPU>75W is installed, CPUs with TDP greater than 300W are not supported

Table 6 Available 5th Gen. Intel® Xeon® Scalable CPUs

Product ID	Segment/ Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support	Supported Server
(PID)		(S)	(C)	(GHz)	(W)	(MB)	(MT/s)	
8000 Series Proc	essors				•			
HCI-CPU-I8592V	Cloud/SaaS/IaaS	25	64	2.00	330W	320.00	4800	All Flash/All NVMe
HCI-CPU-I8592+	2S Performance	25	64	1.90	350W	320.00	5600	All Flash/All NVMe
HCI-CPU-I8581V ¹	1-S Cloud/SaaS	15	60	2.00	270W	300.00	4800	All Flash
HCI-CPU-I8580	2S Performance	25	60	2.00	350	300.00	5600	All Flash/All NVMe
HCI-CPU-I8571N ¹	1-S Networking	15	52	2.40	300	300.00	4800	All Flash
HCI-CPU-I8570	2S Performance	2S	56	2.10	350	300.00	5600	All Flash/All NVMe
HCI-CPU-I8568Y+	2S Performance	25	48	2.30	350	300.00	5600	All Flash/All NVMe
HCI-CPU-18562Y+	2S Performance	2S	32	2.80	300	60.00	5600	All Flash/All NVMe
HCI-CPU-I8558U ¹	1-Socket Optimized	15	48	2.00	300	260.00	4800	All Flash
HCI-CPU-I8558P	Cloud/SaaS/IaaS	25	48	2.70	350	260.00	5600	All Flash/All NVMe
HCI-CPU-I8558	2S Mainline	25	48	2.10	330	260.00	5200	All Flash/All NVMe
6000 Series Proc	essors		I.		T.			
HCI-CPU-I6554S	Storage	25	36	2.20	270	180.00	5200	All Flash/All NVMe
HCI-CPU-I6548Y+	2S Performance	25	32	2.50	250	60.00	5200	All Flash/All NVMe
HCI-CPU-I6548N	Networking	25	32	2.80	250	60.00	5200	All Flash/All NVMe
HCI-CPU-I6544Y	2S Performance	25	16	3.60	270	45.00	5200	All Flash/All NVMe
HCI-CPU-I6542Y	2S Performance	25	24	2.90	250	60.00	5200	All Flash/All NVMe
HCI-CPU-I6538Y+	2S Mainline	25	32	2.20	225	60.00	5200	All Flash/All NVMe
HCI-CPU-I6538N	Networking	25	32	2.10	205	60.00	5200	All Flash/All NVMe
HCI-CPU-I6534	2S Performance	25	8	3.90	195	22.50	4800	All Flash/All NVMe
HCI-CPU-I6530	2S Mainline	25	32	2.10	270	160.00	4800	All Flash/All NVMe
HCI-CPU-I6526Y	2S Performance	25	16	2.80	195	37.50	5200	All Flash/All NVMe
5000 Series Proc	essors		1		1		'	
HCI-CPU-I5520+	2S Mainline	2S	28	2.20	205	52.50	4800	All Flash/All NVMe

Table 6 Available 5th Gen. Intel® Xeon® Scalable CPUs

Product ID	Segment/ Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support	Supported Server
(PID)		(S)	(C)	(GHz)	(W)	(MB)	(MT/s)	
HCI-CPU-I5515+	2S Performance	25	8	3.20	165	22.50	4800	All Flash/All NVMe
HCI-CPU-I5512U ¹	1-Socket Optimized	15	28	2.10	185	52.50	4800	All Flash
4000 Series Processors								
HCI-CPU-I4516Y+	2S Mainline	25	24	2.20	185	45.00	4400	All Flash/All NVMe
HCI-CPU-I4514Y	2S Mainline	25	16	2.00	150	30.00	4400	All Flash/All NVMe
HCI-CPU-I4510T ²	EDGE (IOT)	25	12	2.00	115	30.00	4400	All Flash/All NVMe
HCI-CPU-I4510 ²	2S Mainline	25	12	2.40	150	30.00	4400	All Flash/All NVMe
HCI-CPU-I4509Y ²	2S Mainline	25	8	2.60	125	22.50	4400	All Flash/All NVMe
Accessories/spare included with CPU configuration: ■ UCSC-HSHP-C240M7								

Notes:

- 1. You cannot have two of these CPUs in a two-CPU configuration and you cannot later upgrade to a 2-CPU system with two of these CPUs.
- 2. 48GB and 96GB memory DIMMs not supported on HCI-CPU-I3508U, HCI-CPU-I4509Y, HCI-CPU-I4510, HCI-CPU-I4510T

NOTE: if you are adding a second CPU later, you may need to order accessories spares with it.

Table 7 Available 4th Gen. Intel® Xeon® Scalable CPUs

Product ID	Segment/Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support
(PID)		(S)	(C)	(GHz)	(W)	(MB)	(MT/s)
8000 Series Proces	8000 Series Processors						
HCI-CPU-18490H	IMDB/Analytics	25	60	1.90	350	112.50	4800
HCI-CPU-18480+	2S Performance	25	56	2.00	350	105.00	4800
HCI-CPU-I8471N ¹	5G/Networking	15	52	1.80	300	97.50	4800
HCI-CPU-I8470N	5G/Networking	25	52	1.70	300	97.50	4800
HCI-CPU-18470	2S Performance	25	52	2.00	350	105.00	4800
HCI-CPU-I8468V	Cloud/SaaS/Media	2S	48	2.40	330	97.50	4800
HCI-CPU-I8468H	IMDB/Analytics	2S	48	2.10	330	105.00	4800
HCI-CPU-18468	2S Performance	25	48	2.10	350	105.00	4800

Table 7 Available 4th Gen. Intel® Xeon® Scalable CPUs

Product ID	Segment/Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support
(PID)		(S)	(C)	(GHz)	(W)	(MB)	(MT/s)
HCI-CPU-I8462Y+	2S Performance	25	32	2.80	300	60.00	4800
HCI-CPU-I8461V ¹	Cloud/SaaS/Media	15	48	2.20	300	97.50	4800
HCI-CPU-I8460Y+	2S Performance	25	40	2.00	300	105.00	4800
HCI-CPU-I8460H	IMDB/Analytics	25	40	2.20	330	105.00	4800
HCI-CPU-I8458P	Cloud/SaaS/Media	25	44	2.70	350	82.50	4800
HCI-CPU-18454H	IMDB/Analytics	25	32	2.10	270	82.50	4800
HCI-CPU-I8452Y	2S Mainline	25	36	2.00	300	67.50	4800
HCI-CPU-18450H	IMDB/Analytics	25	28	2.00	250	75.00	4800
HCI-CPU-I8444H	IMDB/Analytics	25	16	2.90	270	45.00	4800
6000 Series Proces	ssors						
HCI-CPU-I6454S	Storage	25	32	2.20	270	60.00	4800
HCI-CPU-I6448Y	2S Performance	25	32	2.10	225	60.00	4800
HCI-CPU-I6448H	IMDB/Analytics	25	32	2.40	250	60.00	4800
HCI-CPU-I6444Y	2S Performance	25	16	3.60	270	45.00	4800
HCI-CPU-I6442Y	2S Performance	25	24	2.60	225	60.00	4800
HCI-CPU-I6438Y+	2S Mainline	25	32	2.00	205	60.00	4800
HCI-CPU-I6438N	5G/Networking	25	32	2.00	205	60.00	4800
HCI-CPU-I6438M	Cloud/SaaS/Media	25	32	2.20	205	60.00	4800
HCI-CPU-I6434H	IMDB/Analytics	25	8	3.70	195	22.50	4800
HCI-CPU-I6434	2S Performance	25	8	3.70	195	22.50	4800
HCI-CPU-I6430	2S Mainline	25	32	2.10	270	60.00	4400
HCI-CPU-I6428N	5G/Networking	25	32	1.80	185	60.00	4000
HCI-CPU-I6426Y	2S Performance	25	16	2.50	185	37.50	4800
HCI-CPU-I6421N ¹	5G/Networking	15	32	1.80	185	60.00	4400
HCI-CPU-I6418H	IMDB/Analytics	25	24	2.10	185	60.00	4800
HCI-CPU-I6416H	IMDB/Analytics	25	18	2.20	165	45.00	4800
HCI-CPU-I6414U ¹	1S gen. purpose	15	32	2.00	250	60.00	4800
5000 Series Proces	ssors	I	<u> </u>	I	Ш	<u>I</u>	1
HCI-CPU-I5420+	2S Mainline	25	28	2.00	205	52.50	4400
HCI-CPU-I5418Y	2S Mainline	25	24	2.00	185	45.00	4400
HCI-CPU-I5418N	5G/Networking	25	24	1.80	165	45.00	4000

Table 7 Available 4th Gen. Intel® Xeon® Scalable CPUs

Product ID	Segment/Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support
(PID)		(S)	(C)	(GHz)	(W)	(MB)	(MT/s)
HCI-CPU-I5416S	Storage	2S	16	2.00	150	30.00	4400
HCI-CPU-I5415+	2S Performance	2S	8	2.90	150	22.50	4400
HCI-CPU-I5412U ¹	1S gen. purpose	15	24	2.10	185	45.00	4400
HCI-CPU-I5411N ¹	5G/Networking	15	24	1.90	165	45.00	4400
4000 Series Processors							
HCI-CPU-I4416+	2S Mainline	25	20	2.00	165	37.50	4000
HCI-CPU-I4410Y	2S Mainline	25	12	2.00	150	30.00	4000
HCI-CPU-I4410T	IOT	25	10	2.70	150	26.25	4000

Accessories/spare included with CPU configuration:

■ UCSC-HSHP-C240M7

NOTE: if you are adding a second CPU later, you may need to order accessories spares with it.

Notes:

1. You cannot have two of these CPUs in a two-CPU configuration and you cannot later upgrade to a 2-CPU system with two of these CPUs.

Table 8 CPU Suffixes

CPU Suffix	Description	Features
Р	Cloud (IaaS)	Designed for cloud IaaS environments to deliver higher frequencies at constrained TDPs
٧	Cloud (SaaS)	Designed for high rack density, maximize VM/core, and lower power VM environment
M	Media Transcode	Designed for Media processing, AI, and HPC workloads
Н	DB and Analytics	Designed for Data Analytics and Big Data usages
N	Network/5G/Edge (High TDP/Low latency)	Designed and optimized for a range of broadly-deployed network and 5G workload environments from Edge to the Data Center
S	Storage & HCI	Designed for Storage usages and workloads
Т	Long-life Use/High Tcase	Designed for Network Environment-Building System (NEBS) and IoT market
U	1-Socket	Optimized for targeted platforms adequately served by the cores, memory bandwidth and IO capacity available from a single processor
Υ	General SKU with SST-PP	Designator is used for general SKU stack to highlight SST-PP (Speed Select Technology Performance Profile) feature enabled

Table 8 CPU Suffixes

CPU Suffix	Description	Features
+	Feature Plus SKU	Designed to enable 1 instance of each DSA, IAA, QAT, DLB embedded accelerator

Supported Configurations

- (1) Configurations with HCIAF240C-M7SN:
 - You must select two identical CPUs from *Table 6* or *Table 7*.
- (2) Configurations with HCIAF240C-M7SX:
 - 1-CPU Configuration:
 - Choose one CPU from Table 6 or Table 7
 - 2-CPU Configuration:
 - Choose two identical CPUs from Table 6 or Table 7.

STEP 5 SELECT MEMORY (REQUIRED)

The *Table 9* below describes the main memory DIMM features supported on HCIAF240C M7 All-NVMe/All-Flash Server.



CAUTION:

- When 256GB DIMMs are installed, normal operating temperature is limited to 28°C [82.4°F], and lowered to 19°C [66.2°F] with a fan fault
- 256GB DIMMs cannot be combined with GPU card

Table 9 Main Memory Features

Memory DIMM server technologies	Description		
DDP5 memory clock speed	4th Gen. CPU: Up to 4800MT/s 1DPC; Up to 4400MT/s 2DPC		
DDR5 memory clock speed	5th Gen. CPU: Up to 5600MT/s 1DPC; Up to 4400MT/s 2DPC		
Operational voltage	1.1 Volts		
DRAM fab density	16Gb and 24Gb		
DRAM DIMM type	RDIMM (Registered DDR5 DIMM with on die ECC)		
Memory DIMM organization	Eight memory DIMM channels per CPU; up to 2 DIMMs per channel		
Maximum number of DRAM DIMM per server	32 (2-Socket)		
DRAM DIMM Densities and Ranks	16GB 1Rx8, 32GB 1Rx4, 64GB 2Rx4, 128GB 4Rx4, 256GB 8Rx4		
DRAM DIMM Delisities and Ranks	48GB 1Rx4, 96GB 2Rx4 - 5th Gen. only		
Maximum system capacity (DRAM DIMMs only)	8TB (32x256GB)		

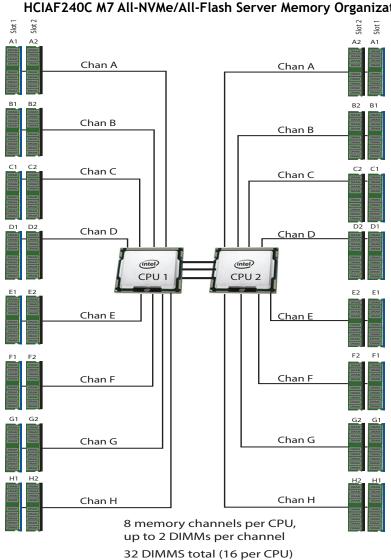


Figure 6 HCIAF240C M7 All-NVMe/All-Flash Server Memory Organization

Select DIMMs

Table 10 Available DDR5 DIMMs

Product ID (PID)	PID Description				
	DDR5-4800MT/s PID list				
HCI-MRX16G1RE1	16GB DDR5-4800 RDIMM 1Rx8 (16Gb)				
HCI-MRX32G1RE1	32GB DDR5-4800 RDIMM 1Rx4 (16Gb)				
HCI-MRX64G2RE1	64GB DDR5-4800 RDIMM 2Rx4 (16Gb)				
HCI-MR128G4RE1	128GB DDR5-4800 RDIMM 4Rx4 (16Gb)				
HCI-MR256G8RE1 ^{1,2}	256GB DDR5-4800 RDIMM 8Rx4 (16Gb)				
DDR5-5600MT/s PID list ³					
HCI-MRX16G1RE3	16GB DDR5-5600 RDIMM 1Rx8 (16Gb)				
HCI-MRX32G1RE3	32GB DDR5-5600 RDIMM 1Rx4 (16Gb)				
HCI-MRX48G1RF3 ⁴	48GB DDR5-5600 RDIMM 1Rx4 (24Gb)				
HCI-MRX64G2RE3	64GB DDR5-5600 RDIMM 2Rx4 (16Gb)				
HCI-MRX96G2RF3 ⁴	96GB DDR5-5600 RDIMM 2Rx4 (24Gb)				
HCI-MR128G4RE3	128GB DDR5-5600 RDIMM 4Rx4 (16Gb)				
HCI-MR256G8RE3 ^{1,2}	256GB DDR5-5600 RDIMM 8Rx4 (16Gb)				
Accessories/spare included with Memory configuration: UCS-DDR5-BLK ⁵ is auto included for the unselected DIMMs slots					

Notes:

- 1. 256GB DIMM is available on all 240M7 server models.
- 2. 256GB DIMMs cannot be combined with GPU cards, and the ambient temperature shall be limited to a maximum of 28°C.
- 3. DDR5-5600 supported on Intel® Xeon® 5th generation only.
- 4. 48GB and 96GB memory DIMMs not supported on HCI-CPU-I3508U, HCI-CPU-I4509Y, HCI-CPU-I4510, HCI-CPU-I4510T
- 5. Any empty DIMM slot must be populated with a DIMM blank to maintain proper cooling airflow.

Memory configurations and mixing rules

- Golden Rule: Memory on every CPU socket shall be configured identically.
- System speed is dependent on the CPU DIMM speed support. Refer to Available 4th Gen. Intel® Xeon® Scalable CPUs, page 21 and Available 5th Gen. Intel® Xeon® Scalable CPUs, page 20 for DIMM speeds.
- For full details on supported memory configurations see the M7 Memory Guide.

■ DIMM Count Rules:

Table 11 Allowed DIMM Count for 1-CPU and 2-CPU

Allowed DIMM Count rules	Minimum Count	Maximum Count	Allowed Count	Not Allowed Count			
16GB, 32GB, 64GB, 128GB, 256GB (4th and 5th Gen. CPUs)							
DIMM count for 1 CPU	1	16	1,2,4,6,8,12,16	3,5,7,9,10,11,13,14,15			
DIMM count for 2-CPU	2	32	2,4,8,12,16,24,32	6,10,14,18,20,22,26,28,30			
48GB (5th Gen. CPUs Only)							
DIMM count for 1 CPU	1	8	1,6,8	2,3,4,5,7,9,10,11,12,13,14,15, 16			
DIMM count for 2-CPU	2	16	2,12,16	4,6,8,10,14,18,20,22,24,26,28, 30,32			
	96GB (5th Gen. CPUs Only)						
DIMM count for 1 CPU	1	16	1,6,8,12,16	2,3,4,5,7,9, 10,11,13,14,15			
DIMM count for 2-CPU	2	32	2,12,16,24,32	4,6,8,10,14,18,20,22,26,28,30			

NOTE(1): 12 DIMMs count for 1-CPU, 24 DIMMs count and for 2-CPU configurations are only allowed when all DIMMs have the same density.

- DIMM Population Rules:
 - Each channel has two memory slots (for example, channel A = slots A1 and A2). See golden rule above.
 - A channel can operate with one or two DIMMs installed.
 - If a channel has only one DIMM, populate slot 1 first (the blue slot).
 - When both CPUs are installed, populate the memory slots of each CPU identically. Fill the blue slots (slot 1) in the memory channels first according to the recommended DIMM populations in *Table 12.0*, *Table 12.1* and *Table 12.2*.

Table 12.0 M7 DIMM population order for 16GB, 32GB, 64GB, 128GB, 256GB

#DIMMs per CPU	DIMM Population - 16GB, 32GB, 64GB, 128GB, 256GB (4th and 5th Gen. CPUs) ¹					
#BiMiMS per er o	Slot 1 (Blue)	Slot 2 (Black)				
1	A1	-				
2	A1, G1	-				
4	A1, C1, E1, G1	-				
6	A1, C1, D1, E1, F1, G1	-				
8	A1, B1, C1, D1, E1, F1, G1, H1	-				
12 ²	A1, B1, C1, D1, E1, F1, G1, H1	A2, C2, E2, G2				
16	A1, B1, C1, D1, E1, F1, G1, H1	A2, B2, C2, D2, E2, F2, G2, H2				

Notes:

- 1. See DIMM Mixing Rules for allowed combinations across slots 1 and 2.
- 2. Only valid when DIMMs in blue and black slots are the same density.

Table 12.1 M7 DIMM population order for 48GB

#DIMMs per CPU	DIMM Population - 48GB	3 (5th Gen. CPUs only) ^{1,2}
#DIMINIS PET CT O	Slot 1 (Blue)	Slot 2 (Black)
1	A1	-
6	A1, C1, D1, E1, F1, G1	-
8	A1, B1, C1, D1, E1, F1, G1, H1	-

Notes:

- 1. 48GB DIMMs cannot be mixed with other DIMM capacities.
- 2. Only 1 DPC supported by 48GB.

Table 12.2 M7 DIMM population order for 96GB

#DIMMs per CPU	DIMM Population - 96GB (5th Gen. CPUs only) ¹		
"Divinis per er o	Slot 1 (Blue)	Slot 2 (Black)	
1	A1	-	
6	A1, C1, D1, E1, F1, G1	-	
8	A1, B1, C1, D1, E1, F1, G1, H1	-	
12 ²	A1, B1, C1, D1, E1, F1, G1, H1	A2, C2, E2, G2	
16 ²	A1, B1, C1, D1, E1, F1, G1, H1	A2, B2, C2, D2, E2, F2, G2, H2	

Notes

- 1. 96GB DIMMs cannot be mixed with other DIMM capacities.
- 2. Only valid when DIMMs in blue and black slots are the same density.
- DIMM Mixing Rules:
 - Higher rank DIMMs shall be populated on Slot 1.
 - Mixing different DIMM densities in the same slot across channels is not supported. All populated slots of the same color must have the same DIMM density.
 - Mixing X4 and X8 DIMMs is not allowed
 - Mixing 16Gb DRAM based and 24Gb DRAM based DIMMs is not allowed. Therefore, 48GB and 96GB cannot be mixed with any other memory DIMMs
 - 48GB supports 1 DIMM Per Channel (1DPC) only
 - The DIMM mixing rules matrix is described in the *Table 13* and *Table 14*, below

Table 13 Supported DIMM mixing and population across 2 slots in each channel - 16GB, 32GB, 64GB, 128GB, and 256GB DIMMs

Channel Mixing		DIMM Slot 2 (Black)				
DIMM Slot 1 (Blue)		16GB	32GB	64GB	128GB	256GB
		1Rx8	1Rx4	2Rx4	4Rx4	8Rx4
16GB	1Rx8	Yes ¹	No	No	No	No
32GB	1Rx4	No	Yes ¹	No	No	No
64GB	2Rx4	No	Yes ²	Yes ¹	No	No
128GB	4Rx4	No	No	No	Yes ¹	No
256GB	8Rx4	No	No	No	Yes ²	Yes ¹

Notes:

- 1. For 2,4,6, 8 DIMMs count, only populate slot 1 (Blue slot). see *Table 12.0* for details
- 2. When mixing two different DIMM densities, all 8 channels per CPU must be populated. Use of fewer than 8 channels (16 slots per CPU) is not supported.

Table 14 Supported DIMM mixing and population across 2 slots in each channel - 48GB and 96GB DIMMs

Channel Mixing		DIMM Slot 2 (Black)		
DIMM Slot 1 (Blue)		48GB	96GB	
		1Rx4	2Rx4	
48GB	1Rx4	No	No	
96GB	2Rx4	No	Yes ¹	

Notes:

- 1. For 6, 8 DIMMs count, only populate slot 1 (Blue slot). see *Table 12.2* for details
- Memory Limitations:
 - Memory on every CPU socket shall be configured identically.
 - Refer to *Table 12.0*, *Table 12.1* and *Table 12.2*. and *Table 13* and *Table 14*, for DIMM population and DIMM mixing rules.
 - Cisco memory from previous generation servers (DDR3 and DDR4) is not supported with the M7 servers.
- For best performance, observe the following:
 - For optimum performance, populate at least one DIMM per memory channel per CPU. When one DIMM per channel is used, it must be populated in DIMM slot 1 (blue slot farthest away from the CPU) of a given channel.
 - The maximum 2 DPC speed is 4400 MT/s, refer to *Table 15.0* and *Table 15.1* for the details.

Table 15.0 DDR5-4800 DIMM 1DPC and 2DPC max speed matrix - 4th Gen. CPU

4th Gen. CPU Shelves	1DPC	2DPC	
and Memory Speed	All RDIMMs	All RDIMMs	
Platinum Series 8	4800 MT/s	4400 MT/s	
Gold Series 6	4800 MT/s	4400 MT/s	
Gold Series 5	4400 MT/s	4400 MT/s	
Silver Series 4	4000 MT/s	4000 MT/s	
Bronze Series 3	4000 MT/s	4000 MT/s	

Table 15.1 DDR5-5600 DIMM 1DPC and 2DPC max speed matrix - 5th Gen. CPU

5th Gen. CPU Shelves and Memory	1DPC	2DPC
Speed	All RDIMMs	All RDIMMs
Platinum Series 8	5600 MT/s	4400 MT/s
Gold Series 6	5200 MT/s	4400 MT/s
Gold Series 5	4800 MT/s	4400 MT/s
Silver Series 4	4400 MT/s	4400 MT/s
Bronze Series 3	4400 MT/s	4400 MT/s



NOTE: For full details on supported memory configurations see the M7 Memory Guide.

STEP 6 SELECT DRIVE CONTROLLERS (REQUIRED)

The following list summarizes how drives are controlled on the server:

■ Up to 14 SAS/SATA drives are controlled through a Cisco 12G SAS pass-through HBA.



NOTE:

- PCIe drives are controlled directly from the CPUs.
- Drive Controllers are not supported in HCIAF240C-M7SN (All-NVMe) server node.

RAID Controller Options

Select the drive controllers options for internal drives from the following Table 16.

■ Two Cisco 12G SAS HBA



NOTE: If the Cisco 12G SAS HBA is selected, it is factory-installed in a dedicated slot.

Table 16 Hardware Controller Options

Product ID (PID)	PID Description			
Controllers for Inte	Controllers for Internal Drives			
HCI-SAS-M7T	Cisco M7 12G SAS HBA for (16 Drives)			
	This SAS HBA supports up to 14 SAS HDDs and SAS/SATA SSDs operating at 3Gbps, 6Gbps, and 12Gbps.			
	■ No RAID support			
	■ Supports JBOD or pass-through mode			
	■ The 12G SAS HBA plugs directly into a dedicated slot.			
Accessories/spare included with drive controller (For HCIAF240C-M7SX):				
CBL-SAS12-C240M7, CBL-SAS24-C240M7 and UCSC-RDBKT-24XM7 are included with the selection of HCI-SAS-M7T drive controller.				

STEP 7 SELECT DRIVES (REQUIRED)

The standard disk drive features are:

- 2.5-inch small form factor (SFF)
- Hot-pluggable
- Drives come mounted in sleds

Select Drives - HCIAF240C-M7SN (All-NVMe)

The available drives are listed in *Table 17*.



NOTE: Nutanix AOS supports a maximum of 307TB raw capacity per node for NCI use case (AOS 6.8.1 and Later)

Table 17 Available Hot-Pluggable Sled-Mounted Drives

Product ID (PID)	PID Description	Drive Type	Capacity	
Front Capacity Drive		'		
HCI-NVME4-1920	1.9TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	NVMe	1.9TB	
HCI-NVME4-3840	3.8TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	NVMe	3.8TB	
HCI-NVME4-7680	7.6TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	NVMe	7.6TB	
HCI-NVME4-15360	15.3TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	NVMe	15.3TB	
HCI-NVMEG4-M1920	1.9TB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	NVMe	1.9TB	
HCI-NVMEG4-M3840	3.8TB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	NVMe	3.8TB	
HCI-NVMEG4-M6400	6.4TB 2.5in U.3 15mm Micron P7450 Hg Perf Hg End NVMe (3X)	NVMe	6.4TB	
HCI-NVMEG4-M7680	7.6TB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	NVMe	7.6TB	
HCI-NVMEG4-M1536	15.3TB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	NVMe	15.3TB	
Boot Drive				
HCI-M2-240G	240GB M.2 SATA Micron G2 SSD	SATA	240GB	
HCI-M2-480G	480GB M.2 SATA SSD	SATA	480GB	
HCI-M2-I240GB	240GB M.2 Boot SATA Intel SSD	SATA	240GB	
HCI-M2-I480GB	480GB M.2 Boot SATA Intel SSD	SATA	480GB	

NOTE: Cisco uses solid state drives (SSDs) from a number of vendors. All solid state drives (SSDs) are subject to physical write limits and have varying maximum usage limitation specifications set by the manufacturer. Cisco will not replace any solid state drives (SSDs) that have exceeded any maximum usage specifications set by Cisco or the manufacturer, as determined solely by Cisco.

Approved Configurations

- Three to twenty four capacity drives.
- Two boot drives with M.2 Raid controller



NOTE:

- Dual M.2 SATA SSD with the HW RAID controller is the only supported boot configuration for this solution.
- The Boot-Optimized RAID controller supports AHV Operating Systems.
- UCSM is supported for configuring of volumes and monitoring of the controller and installed SATA M.2 drives.
- The SATA M.2 drives can boot in UEFI mode only. Legacy boot mode is not supported.
- Hot-plug replacement is not supported. The server must be powered off.
- See *Figure 7 on page 113* for the location of the module connector on the motherboard. This connector accepts the boot-optimized RAID controller.

Select Drives - HCIAF240C-M7SX (All-Flash)

The available drives are listed in Table 18.



NOTE: Nutanix AOS supports a maximum of 216TB raw capacity per node for NCI use case

Table 18 Available Hot-Pluggable Sled-Mounted Drives

Product ID (PID)	PID Description	Drive Type	Capacity	
Front Capacity Drive			•	
HCI-SD19TBM1X-EV	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	1.9TB	
HCI-SD38T6I1X-EV	3.8TB 2.5in Enter Value 6G SATA Intel SSD (1x DWPD)	SATA	3.8TB	
HCI-SD38TBM1X-EV	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	3.8TB	
HCI-SDB1T9SA1V	1.9TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	1.9TB	
HCI-SDB3T8SA1V	3.8TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	3.8TB	
HCI-SDB7T6SA1V	7.6TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	7.6TB	
HCI-SD38TKA1X-EV	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1x DWPD)	SAS	3.8TB	
HCI-SD19TKA1X-EV	1.9TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1x DWPD)	SAS	1.9TB	
HCI-SD76TKA1X-EV	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1x DWPD)	SAS	7.6TB	
HCI-SD15TKA1X-EV	15.3TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1x DWPD)	SAS	15.3TB	
Front SED Capacity Drive				
HCI-SD38TBKANK9	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS) (1 DWPD)	SAS	3.8TB	
HCI-SD76TBKANK9	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS) (1 DWPD)	SAS	7.6TB	
Boot Drive				
HCI-M2-240G	240GB M.2 SATA Micron G2 SSD	SATA	240GB	
HCI-M2-480G	480GB M.2 SATA SSD	SATA	480GB	
HCI-M2-I240GB	240GB M.2 Boot SATA Intel SSD	SATA	240GB	
HCI-M2-I480GB	480GB M.2 Boot SATA Intel SSD	SATA	480GB	

NOTE: Cisco uses solid state drives (SSDs) from a number of vendors. All solid state drives (SSDs) are subject to physical write limits and have varying maximum usage limitation specifications set by the manufacturer. Cisco will not replace any solid state drives (SSDs) that have exceeded any maximum usage specifications set by Cisco or the manufacturer, as determined solely by Cisco.

Approved Configurations

- Two to twenty four capacity drives.
- Two boot drives with M.2 Raid controller



NOTE:

- Dual M.2 SATA SSD with the HW RAID controller is the only supported boot configuration for this solution.
- The Boot-Optimized RAID controller supports AHV Operating Systems.
- UCSM is supported for configuring of volumes and monitoring of the controller and installed SATA M.2 drives.
- The SATA M.2 drives can boot in UEFI mode only. Legacy boot mode is not supported.
- Hot-plug replacement is not supported. The server must be powered off.
- See *Figure 7 on page 113* for the location of the module connector on the motherboard. This connector accepts the boot-optimized RAID controller.

Caveats

■ SED drives can not be mixed with the non-SED drives.

STEP 8 SELECT CISCO COMPUTE HYPERCONVERGED CONNECTIVITY (REQUIRED)

A. FI Managed Mode - HCI connectivity:

The following connectivity and cards options are available, if you select the FI Managed Mode from the STEP 2 SELECT MANAGMENT MODE (REQUIRED).

Select Connectivity

The available connectivity are listed in *Table 19*.



NOTE:

- HCI MLOM Connectivity (HCI-MLOM) is mandatory for this solution.
- Minimum and maximum one MLOM card is available from the *Table 20*.
- Supported configuration maximum is Single MLOM + Single VIC (select VIC under the riser PCIe VIC card option from *Table 23*).
- Additional NIC cards can be selected for user VM network traffic and will be directly connected to ToR (top of the rack), select NIC under the riser PCIe NIC options Table 23.

Table 19 Cisco Compute Hyperconverged Connectivity

Product ID (PID)	Description	Max cards available per node	Requirement
HCI-MLOM	Cisco VIC Connectivity	1	1 mLOM (Mandatory) + 1 PCIe VIC (optional) (select from <i>Table 20</i>)

The available cards for the Cisco Compute Hyperconverged MLOM are listed in Table 20

Table 20 Available Cards for the Cisco Compute Hyperconverged MLOM Connectivity

Product ID (PID)	Description	Location	Card Size ¹
MLOM Cards			
HCI-M-V5Q50GV2	Cisco VIC 15427 4x 10/25/50G mLOM C-Series w/Secure Boot	mLOM	HHHL, SS
HCI-M-V5D200GV2	Cisco VIC 15237 2x 40/100/200G mLOM C-Series w/Secure Boot	mLOM	HHHL, SS

Notes:

^{1.} HHHL = half-height, half-length; FHHL = full-height, half-length; SS = single-slot; DS = double-slot. SFF = small form factor.

B. Intersight Standalone Mode (IS Managed) - HCI connectivity:



Golden Rule: Mixing VIC and NIC in same server/cluster is not supported.

The following connectivity options are available, if you select the Intersight Standalone Mode (IS Managed) from the STEP 2 SELECT MANAGMENT MODE (REQUIRED).

Select Connectivity

The available connectivity are listed in *Table 21*.



NOTE:

- Either Cisco VIC Connectivity (HCI-MLOM) or Third Party NIC Connectivity connectivity (HCI-PCIE) is mandatory for this solution.
- Use HCI-MLOM for VIC based connectivity and HCI-PCIE for NIC based connectivity.
- Minimum and maximum one MLOM card is available from the *Table 22*.
- When HCI-MLOM is selected up to three additional VIC can be selected from the *Table 23*.
- When HCI-PCIE is selected up to two additional NIC can be selected from the table *Table 23*.

Table 21 Cisco Compute Hyperconverged Connectivity

Product ID (PID)	Description	Max cards available per node	Requirement (Either HCI-MLOM or HCI-PCIE is Mandatory)
HCI-MLOM	Cisco VIC Connectivity	1 MLOM VIC + 2 PCIe VIC	Select from MLOM VIC <i>Table 22</i> and additional VIC in the riser slot from the <i>Table 23</i>
HCI-PCIE	Third Party NIC Connectivity	3 dual port or 3 quad port in PCIe riser slot	Select NIC cards under riser from <i>Table 23</i>

The available cards for the MLOM connectivity are listed in *Table 22*.

Table 22 Available Cards for the Cisco Compute Hyperconverged MLOM Connectivity

Product ID (PID)	Description	Location	Card Size ¹
MLOM Cards			
HCI-M-V5Q50GV2	Cisco VIC 15427 4x 10/25/50G mLOM C-Series w/Secure Boot	mLOM	HHHL, SS
HCI-M-V5D200GV2	Cisco VIC 15237 2x 40/100/200G mLOM C-Series w/Secure Boot	mLOM	HHHL, SS

Notes:

1. HHHL = half-height, half-length; FHHL = full-height, half-length; SS = single-slot; DS = double-slot. SFF = small form factor.

STEP 9 SELECT PCIe CARD(s) (OPTIONAL FOR FI MANAGED MODE)

For up-to-date server compatibility, please check the Hardware and Software compatibility list (HCL) at https://ucshcltool.cloudapps.cisco.com/public/.

The standard PCIe card offerings are:

- Virtual Interface Cards (VICs)
- Network Interface Cards (NICs)



NOTE: In FI managed mode additional 3rd party NIC cards can be selected. These are for **User VM traffic** only, i.e these can act as uplink ports for vSwitches to carry user **VM network traffic**. These NICs are directly connected to the Top-Of-Rack Switch and Cannot be connected to Fabric interconnect

Select Option Cards

The available option cards are listed in Table 23

Table 23 Available PCIe Option Cards

Product ID (PID)	PID Description	Location	Card Size ¹	Supported Management Mode
Virtual Interface Car	rds (VICs)			
HCI-P-V5Q50G	Cisco VIC 15425 4x 10/25/50G PCIe C-Series w/Secure Boot	Riser 1 or 2	HHHL, SS	IS Managed Mode
				FI Managed Mode
HCI-P-V5D200G	Cisco VIC 15235 2x 40/100/200G PCIe C-Series w/Secure Boot	Riser 1 or 2	HHHL, SS	IS Managed Mode
				FI Managed Mode
Network Interface C	ards (NICs)			
10GbE NICs				
HCI-PCIEID10GF	Intel X710-DA2 Dual Port 10Gb SFP+ NIC	Riser 1, 2, or 3	HHHL, SS	FI Managed Mode (User VM traffic only)
HCI-PCIEIQ10GF	Intel X710 quad-port 10G SFP+ NIC	Riser 1, 2, or 3	HHHL, SS	FI Managed Mode (User VM traffic only)
HCI-P-ID10GC	Cisco-Intel X710T2LG 2x10GBE RJ45 PCIe NIC	Riser 1, 2, or 3	HHHL, SS	IS Managed Mode
HCI-P-IQ10GC	Cisco-Intel X710T4LG 4x10GBE RJ45 PCIe NIC	Riser 1, 2, or 3	HHHL, SS	IS Managed Mode
25GbE NICs				
HCI-P-I8D25GF ²	Cisco-Intel E810XXVDA2 2x25/10GBE SFP28 PCIe NIC	Riser 1, 2, or 3	HHHL, SS	IS Managed Mode
				FI Managed Mode (User VM traffic only)

Table 23 Available PCIe Option Cards (continued)

Product ID (PID)	PID Description	Location		Supported Management Mode
HCI-P-I8Q25GF ³	Cisco-Intel E810XXVDA4L 4x25/10GBE SFP28 PCIe NIC	Riser 1, 2, or 3	FHHL, SS	IS Managed Mode
				FI Managed Mode (User VM traffic only)
100GbE NICs				
HCI-P-I8D100GF ^{3,4}	Cisco-Intel E810CQDA2 2x100 GbE QSFP28 PCIe NIC	Riser 1, 2, or 3	HHHL, SS	FI Managed Mode (User VM traffic only)

Notes:

- 1. HHHL = half-height, half-length; FHHL = full-height, half-length; SS = single-slot; DS = double-slot. SFF = small form factor.
- 2. When present, the recommended Fan Speed Control policy setting is balanced.

Caveats

- For 1-CPU systems:
 - All the PCIe slots on riser 1A and 1C are supported for the PCIe Cards.
 - Riser 2 and 3 are not supported in 1-CPU system.
 - Only a single plug-in PCIe VIC card may be installed on a 1-CPU system, and it must be installed in slots 1 or 2 of riser 1A or slot 1 of riser 1C.
- For 2-CPU systems:
 - All risers (Risers 1, 2, and 3) are supported

ORDER OPTIONAL PCIe OPTION CARD ACCESSORIES

- At the time of first launch, the 3rd Party Ethernet adapters were tested for interoperability with an initial selection of Optical Modules and Cables. Please check the Product Briefs for this initial list of interoperable optics and cables at https://www.cisco.com/c/en/us/products/servers-unified-computing/third-party-adapters-listing.html.
- For list of supported optics and cables for VIC 15000 series , refer to the VIC 15000 series data sheet at https://www.cisco.com/c/en/us/products/collateral/interfaces-modules/unified-computing-system-a dapters/ucs-vic-15000-series-ds.html
- Cisco Transceiver Module Group (TMG) conducts tests with Cisco optics and cables and publishes the results in the TMG Compatibility Matrix. The latest compatibility with optical modules and DACs can be found at https://tmgmatrix.cisco.com/

STEP 10 ORDER GPU CARDS (OPTIONAL)

Select GPU Options

The available GPU PCIe options and their riser slot compatibilities are listed in Table 24.



CAUTION:

- 256GB DIMMs cannot be combined with GPU cards, and the ambient temperature shall be limited to a maximum of 28°C.
- With multiple GPU>75W installed, normal operating temperature is 30° C [86° F], lowered to 25° C [77° F], with a fan fault.
- When a GPU>75W is installed, CPUs with TDP greater than 300W are not supported



- GPUs cannot be mixed
- All GPU cards must be procured from Cisco as there is a unique SBIOS ID required by CIMC and UCSM
- If a GPU with TDP equal or greater than 150W is ordered, all the 3 risers are required, and GPU airblocker will be installed in the middle slot of any empty riser in the system.
- If GPUs are installed in slot 2 of riser 1A/1C or slot 5 of riser 2A/2C, the NCSI capability automatically switches over to slot 1 of riser 1A/1C or slot 4 of Riser 2A/2C. Therefore, Cisco PCIe VICs can be installed in slots 1 and 4, if GPUs are installed in slots 2 and 5. If you order multiple GPUs, they must be installed as shown in *Table 24 on page 42*.
- Please refer to installation guide for the installation of the GPUs.

Table 24 Available PCIe GPU Cards

GPU Product ID (PID)	PID Description	Card Size	Max GPU Per Node	Riser Slot Compatibility ¹			
				Riser 1A/1C	Riser 2A/2C	Riser 3C ²	Riser 3A
HCI-GPU-A30	TESLA A30, PASSIVE, 180W, 24GB	double -wide	3	slot 2	slot 5	slot 7	n/a
HCI-GPU-A40	TESLA A40 RTX, PASSIVE, 300W, 48GB	double -wide	3	slot 2	slot 5	slot 7	n/a
HCI-GPU-A16	NVIDIA A16 PCIE 250W 4X16GB	double -wide	3	slot 2	slot 5	slot 7	n/a
HCI-GPU-L40S	NVIDIA L40S: 350W, 48GB, 2-slot FHFL GPU	double -wide	2	slot 2 (Riser 1C Only)	slot 5 (Riser 2C Only)	n/a	n/a

Table 24 Available PCIe GPU Cards

GPU Product ID (PID)	PID Description	Card Size	Max GPU Per Node	Riser Slot Compatibility ¹			
HCI-GPU-L4 ³	NVIDIA L4:70W, 24GB, 1-slot HHHL GPU	Single- wide	8	All slots	All slots	slot 7	slot 7 & slot 8
HCI-GPU-H100-80	NVIDIA H100: 350W, 80GB, 2-slot FHFL GPU	double -wide	2	slot 2 (Riser 1C Only)	slot 5 (Riser 2C Only)	n/a	n/a

Accessories/spare included with GPU:

- When a GPU ready configuration is ordered, the server comes with low-profile heatsinks PID (UCSC-HSLP-C220M7), and special airblocker PID (UCSC-RISAB-24XM7) for GPUs.
- Air duct (HCI-ADGPU-240M7) is **not** auto-included with the double wide GPUs, however it is required selection under configuration. For GPU HCI-GPU-L4 **air duct is not** required.
- UCS-P100CBL-240 is included with the selection of A16/A30 GPUs.
- CBL-G5GPU-C240M7 power cable included with the selection of HC-GPU-H100-80 GPU and HCI-GPU-L40S GPU.

NOTE: If you are adding GPUs later to non-GPU ready configuration system, you may need to order the GPU airblocker on any empty risers in the system, GPU airduct, low profile heatsinks and cables needed along with the spare GPU.

Notes:

- 1. 1C and 2C are Gen 5 riser and 1A and 2A are Gen 4 riser.
- 2. The server supports one full-height, full-length, double-wide GPU (PCIe slot 7 only) in Riser 3C.
- 3. L4 is supported on all slots in PCIe risers. The maximum would be 8 when you have riser 1A+2A+3A and populate all 8 slots with L4.

Table 25 GPU AIR DUCT

GPU Product ID (PID)	PID Description
HCI-GPUAD-C240M7 ¹	GPU AIR DUCT FOR C240M7

Notes:

1. Air duct (HCI-ADGPU-240M7) is **not** auto-included with the double wide GPUs, however it is required selection under configuration. For GPU HCI-GPU-L4 **air duct is not** required.

STEP 11 ORDER POWER SUPPLY (REQUIRED)

Power supplies share a common electrical and physical design that allows for hot-plug and tool-less installation into M7 HCI-series servers. Each power supply is certified for high-efficiency operation and offer multiple power output options. This allows users to "right-size" based on server configuration, which improves power efficiency, lower overall energy costs and avoid stranded capacity in the data center.

Use the power calculator at the following link to determine the needed power based on the options chosen (CPUs, drives, memory, and so on):

http://ucspowercalc.cisco.com



WARNING:

- Starting 1st January 2024, only Titanium rated PSUs are allowed to be shipped to European Union (EU), European Economic Area (EEA), United Kingdom (UK), Switzerland and other countries that adopted Lot 9 Regulation.
- DC PSUs are not impacted by Lot 9 Regulation and are EU/UK Lot 9 compliant

Table 26 Power Supply

Product ID (PID)	PID Description			
PSU (Input High Line 2	OVAC)			
HCI-PSUV2-1050DC	Cisco UCS 1050W -48V DC Power Supply for Rack Server Platinum			
HCI-PSU1-1200W	1200W Titanium power supply for C-Series Servers Titanium			
HCI-PSU1-1600W	UCS 1600W AC PSU Platinum (Not EU/UK Lot 9 Compliant)			
HCI-PSU1-2300W	Cisco UCS 2300W AC Power Supply for Rack Servers Titanium			
PSU (Input Low Line 110VAC)				
HCI-PSU1-1200W	1200W Titanium power supply for C-Series Servers Titanium			
HCI-PSU1-2300W	Cisco UCS 2300W AC Power Supply for Rack Servers Titanium			



- In a server with two power supplies, both power supplies must be identical.
- Refer to *Power Specifications*, *page 132* section for the full details on the each power supply.

STEP 12 SELECT INPUT POWER CORD(s) (REQUIRED)

Using *Table 27* and *Table 28*, select the appropriate AC power cords. You can select a minimum of no power cords and a maximum of two. If you select the option R2XX-DMYMPWRCORD, no power cord is shipped with the server.



NOTE: *Table 27* lists the power cords for servers that use power supplies less than 2300 W. *Table 28* lists the power cords for servers that use 2300 W power supplies. Note that the power cords for 2300 W power supplies use a C19 connector so they only fit the 2300 W power supply connector.

Table 27 Available Power Cords (for server PSUs less than 2300 W)

Product ID (PID)	PID Description	Images
NO-POWER-CORD	ECO friendly green option, no power cable will be shipped	
CAB-48DC40A8AWG	C-Series -48VDC PSU Power Cord, 3.5M, 3 Wire, 8AWG, 40A	Figure 1-0 CMB-46DC-46A-6MMQ, DO Prower Gord (5.5 m) Program (1.5 m) Research Agency (1.5 m) General State General State General State Bight Rest (3.1 m)
CAB-N5K6A-NA	Power Cord, 200/240V 6A, North America	Plug: NEMA 6-15P Cordset rating: 10 A, 250 V Length: 8.2 ft Connector: IEC60320/C13
CAB-AC-L620-C13	AC Power Cord, NEMA L6-20 - C13, 2M/6.5ft	79±2
CAB-C13-CBN	CABASY,WIRE,JUMPER CORD, 27" L, C13/C14, 10A/250V	800 MI 2 23 MM 2 23 MM 2 23 MM 3 25 MM
CAB-C13-C14-2M	CABASY,WIRE,JUMPER CORD, PWR, 2 Meter, C13/C14,10A/250V	7-100 1-100

Table 27 Available Power Cords (for server PSUs less than 2300 W)

Product ID (PID)	PID Description	Images
CAB-C13-C14-AC	CORD,PWR,JMP,IEC60320/C14,IEC6 0320/C13, 3.0M	MODIFICACIONALO MOLITIFICACIONALO MOLITIFICACIONA
CAB-250V-10A-AR	Power Cord, 250V, 10A, Argentina	2500 mm Cordset rating: 10 A, 250/500 V MAX Length: 8.2 ft [Connector: EL 701 (IEC60320/C13)]
CAB-9K10A-AU	Power Cord, 250VAC 10A 3112 Plug, Australia	Cordset rating: 10 A, 250 V/500 V MAX Length: 2500mm Connector: EL 701C (EN 60320/C15)
CAB-250V-10A-CN	AC Power Cord - 250V, 10A - PRC	A 2250ut-30 B
CAB-9K10A-EU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU	Plug: Cordset rating: 10A16 A, 250 V Length: 8 ft 2 in. (2.5 m) Connector: VSCC15
CAB-250V-10A-ID	Power Cord, 250V, 10A, India	Plug: Cordset rating 16A, 250V (2500mm) Connector: EL 701
CAB-C13-C14-3M-IN	Power Cord Jumper, C13-C14 Connectors, 3 Meter Length, India	Image not available
CAB-C13-C14-IN	Power Cord Jumper,C13-C14 Connectors,1.4 Meter Length, India	Image not available
CAB-250V-10A-IS	Power Cord, SFS, 250V, 10A, Israel	Cordset rating 10A, 250V/500V MAX Plug: EL 212 (Sl-32) (Sl-32)

Table 27 Available Power Cords (for server PSUs less than 2300 W)

Product ID (PID)	PID Description	Images
CAB-9K10A-IT	Power Cord, 250VAC 10A CEI 23-16/VII Plug, Italy	Plug: Cordset rating: 10 A, 250 V Connector C15M (EN60320/C15)
CAB-9K10A-SW	Power Cord, 250VAC 10A MP232 Plug, Switzerland	Plug: Cordset rating: 10 A, 250 V Length: 8 ft. 2 in (2.5 m) Connector: IEC 60320 C15
CAB-9K10A-UK	Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK	Cordset rating: 10 A, 250 V/500 V MAX Length: 2500mm Connector: EL 701C (EN 60320/C15)
CAB-9K12A-NA ¹	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	Cordset rating 13A, 125V (8.2 feet) (2.5m) Plug: NEMA 5-15P Connector: IEC60320/C15
CAB-250V-10A-BR	Power Cord - 250V, 10A - Brazil	2,131.6-25
CAB-C13C142M-JP	Power Cord C13-C14, 2M/6.5ft Japan PSE mark	Image not available
CAB-9K10A-KOR ¹	Power Cord, 125VAC 13A KSC8305 Plug, Korea	Image not available
CAB-ACTW	AC Power Cord (Taiwan), C13, EL 302, 2.3M	Image not available
CAB-JPN-3PIN	Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m	Image not available
CAB-48DC40A-INT	C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (INT)	Image not available
CAB-48DC-40A-AS	C-Series -48VDC PSU PWR Cord, 3.5M, 3Wire, 8AWG, 40A (AS/NZ)	Image not available

Notes:

1. This power cord is rated to 125V and only supported for PSU rated at 1050W or less

Table 28 Available Power Cords (for servers with 2300 W PSUs)

Product ID (PID)	PID Description	Images
CAB-C19-CBN	Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors	Not applicable
CAB-S132-C19-ISRL	S132 to IEC-C19 14ft Israeli	Image not available
CAB-IR2073-C19-AR	IRSM 2073 to IEC-C19 14ft Argen	Image not available
CAB-BS1363-C19-UK	BS-1363 to IEC-C19 14ft UK	Image not available
CAB-SABS-C19-IND	SABS 164-1 to IEC-C19 India	Image not available
CAB-C2316-C19-IT	CEI 23-16 to IEC-C19 14ft Italy	Image not available
CAB-L520P-C19-US	NEMA L5-20 to IEC-C19 6ft US	Image not available
CAB-US515P-C19-US	NEMA 5-15 to IEC-C19 13ft US	Image not available
CAB-US520-C19-US	NEMA 5-20 to IEC-C19 14ft US	Image not available
CAB-US620P-C19-US	NEMA 6-20 to IEC-C19 13ft US	Image not available

STEP 13 ORDER TOOL-LESS RAIL KIT (REQUIRED) AND REVERSIBLE CABLE MANAGEMENT ARM (OPTIONAL)

■ Tool-less Rail Kit:

Select a tool-less rail kit (or no rail kit) from Table 29.



NOTE:

- Cisco recommends a minimum quantity of 1 Rail Kit.
- If you plan to rackmount your Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers, you must order a tool-less rail kit.

Table 29 Tool-less Rail Kit Options

Product ID (PID)	PID Description
HCI-RAIL-M7	Ball bearing rail kit
HCI-RAIL-NONE	No rail kit option

■ Optional Reversible Cable Management Arm:

The reversible cable management arm mounts on either the right or left slide rails at the rear of the server and is used for cable management. Select an Optional Reversible Cable Management Arm from *Table 30*.



NOTE: If you plan to rackmount your Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers, you must order a tool-less rail kit. The same rail kits and CMAs are used for M6 and M7 servers.

Table 30 Cable Management Arm

Product ID (PID)	PID Description
HCI-CMA-C240	Reversible CMA for ball bearing rail kit

For more information about the tool-less rail kit and cable management arm, check the *Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers Installation Guide*.

STEP 14 ORDER SECURITY DEVICES (REQUIRED)

A Trusted Platform Module (TPM) is a computer chip (microcontroller) that can securely store artifacts used to authenticate the platform (server). These artifacts can include passwords, certificates, or encryption keys. A TPM can also be used to store platform measurements that help ensure that the platform remains trustworthy. Authentication (ensuring that the platform can prove that it is what it claims to be) and attestation (a process helping to prove that a platform is trustworthy and has not been breached) are necessary steps to ensure safer computing in all environments.

A chassis intrusion switch gives a notification of any unauthorized mechanical access into the server.

The security device ordering information is listed in Table 31



NOTE:

- The TPM module used in this system conforms to TPM v1.2 and 2.0, as defined by the Trusted Computing Group (TCG). It is also SPI-based.
- TPM installation is supported after-factory. However, a TPM installs with a one-way screw and cannot be replaced, upgraded, or moved to another server. If a server with a TPM is returned, the replacement server must be ordered with a new TPM.

Table 31 Security Devices

Product ID (PID)	PID Description
HCI-TPM-002C	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers
HCI-INT-SW02	C220 and C240 M7 Chassis Intrusion Switch
HCI-TPM-OPT-OUT	OPT OUT, TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified ¹

Notes

1. Please note that Microsoft certification requires a TPM 2.0 for bare-metal or guest VM deployments. Opt-out of the TPM 2.0 voids the Microsoft certification

STEP 15 SELECT HYPERVISOR

Cisco Hypervisor options are listed in Table 32.

Table 32 Hypervisor

Product ID (PID)	PID Description
HCI-AOSAHV-67-SWK9	Cisco Compute Hyperconverged Acropolis Operating System (AOS) Acropolis Hypervisor (AHV) 6.7 Software
HCI-AOSAHV-68-SWK9	Cisco Compute Hyperconverged Acropolis Operating System (AOS) Acropolis Hypervisor (AHV) 6.8 Software



- This solution supports AHV hypervisor option. The Nutanix Foundation VM will perform bare-metal imaging for either hypervisor at time of install for FI management mode (HCI-FI-MANAGED).
- For IS Management mode (HCI-IS-MANAGED) bare metal image can be performed thorough Prism Central.

STEP 16 SELECT NUTANIX SOFTWARE AND NUTANIX PROFESSIONAL SERVICES

- Top Level Nutanix Software And Professional Services PIDs, page 2
 - Table 1, Top Level Nutanix Software And Professional Services PIDs
- Nutanix Software And Professional Services PID Decoder, page 4
 - Table 3.0, Nutanix Software PID Decoder (WW-XX-YY-ZZ)
 - Table 3.1, Nutanix Professional Services PID Decoder (WW-XX-YY-ZZ)
- Nutanix Software PIDs and Description, page 5
 - Table 6.0, Nutanix Cloud Infrastructure (NCI)
 - Table 6.1, Nutanix Cloud Infrastructure Data (NCI-D)
 - Table 6.2, Nutanix Cloud Infrastructure Edge (NCI-E)
 - Table 6.3, End User Computing (EUC)
 - Table 6.4, Nutanix Cloud Manager (NCM)
 - Table 6.5, Nutanix Cloud Manager Edge (NME)
 - Table 6.6, Nutanix Cloud Manager EUC (NCM-U)
 - Table 6.7, Nutanix Cloud Platform (NCP)
 - Table 6.8, Nutanix Unified Storage™ (NUS)
 - Table 6.9, Nutanix Data Lens (NDL)
 - Table 6.10, Nutanix Kubernetes Platform (NKP)
- Professional Services PIDs and Description, page 38
 - Table 7.0, NCI Design Workshop
 - Table 7.1, NCI Cluster Deployment or Expansion
 - Table 7.2, Virtual Machine Migration Workshop
 - Table 7.3, Virtual Machine Migration
 - Table 7.4, NCM Self-Service Design Workshop
 - Table 7.5, NCM Intelligent Operations Design Workshop
 - Table 7.6, NCM Intelligent Operations Deployment
 - Table 7.7, FastTrack for NCM Self-Service
 - Table 7.8, FastTrack for NCM Cost Governance
 - Table 7.9, Nutanix Flexible Credits
- Nutanix Support:, page 48
- Software With Professional Services PID Mapping, page 49
 - Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping
 - Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO),
 NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping
 - Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping
 - Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping
 - Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1
 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

Top Level Nutanix Software And Professional Services PIDs

Table 33 Top Level Nutanix Software And Professional Services PIDs

ATO Product ID (PID)	Description
NTX-SW	Nutanix Software 3Y and above
	NOTE: Please refer to the complete list of Nutanix Software PIDs and Description, page 5
NTX-SW-1Y	Nutanix Software 1Y
	NOTE: Please refer to the complete list of Nutanix Software PIDs and Description, page 5
NTX-NCI-USE-CASE ¹	Nutanix NCI Software License Use case
	NOTE: Please refer to the complete list of Nutanix Software PIDs and Description, page 5
NTX-SW-PS	Nutanix Professional Service
	NOTE: Please refer to the complete list of Professional Services PIDs and Description, page 38

Notes:

1. A selection of NTX-NCI-USE-CASE from Nutanix Software Category is required when Nutanix Cloud Infrastructure Software License (NCI / NCI-D / NCI-E) is selected. There are a few conditions under which NT-PUBLIC-CLOUD can be used. refer to the KB article for more details. Please choose one of them from the Table 2, if you select the NTX-NCI-USE-CASE.

Table 34 Nutanix NCI Software License Use case

Product ID (PID)	Description
NT-ON-PREM-UCS	Use Case to License Nutanix SW on Certified Cisco UCS HW
NT-PUBLIC-CLOUD	Use Case to License Nutanix SW (NC2) Running in Public Cloud (AWS/Azure)Hide
NT-OTHER	Use Case for all other Nutanix SW that is not covered above



NOTE:

(1) 1 Year Subscription term:

All Nutanix software package subscription requires mandatory attach of Nutanix Professional Services.

(2) 3 Year Subscription term:

- For Nutanix Cloud Infrastructure (NCI) software, it is **recommended** to attach Nutanix Professional Services during ordering.
- For Nutanix Cloud Manager (NCM) software, only Professional (PRO) subscription and Ultimate (ULT) subscription requires mandatory Nutanix Professional Services.

(3) Nutanix NCI Software License Use case:

- Ratio of cores between cloud and on-prem must be 70/30 or greater, meaning >=30% of cores must be licensed for on-prem usage. Cloud only deals, public cloud marketplace deals, and hybrid cloud deals with other vendor hardware are not allowed.
- Must include mention of hybrid cloud in your Nutanix deal registration.
- Must select the appropriate public cloud use-case SKU when building a CCW configuration.
- (4) Any future expansion opportunity does not require mandatory Nutanix Professional Services attach.
- (5) Cisco and Nutanix products are each subject to their own terms and conditions, including support timelines and milestones. This includes the Nutanix Cloud Platform software and qualified Cisco UCS hardware platforms sold together as part of the Cisco Compute Hyperconverged with Nutanix solution. Carefully review Nutanix's EoL portal for support timelines by hardware platform. Cisco's UCS hardware support milestones may not align with Nutanix's support milestones. Therefore, it is important to plan your hardware and software refresh cycles based on the earlier of the two dates (hardware support from Cisco and software support from Nutanix). It is your responsibility to check the Nutanix software term length desired against the support time frames for the quoted UCS hardware platform.

Nutanix licenses are transferable to newer generation Cisco UCS platforms subject to Nutanix's end user license agreement. Refer to Nutanix's Support FAQs for details and definitions of Nutanix's End of Life and End of Support Life milestones. Refer to Cisco's EoL policy for details and definitions of Cisco's End of Life and Last Date of Support milestones.

Nutanix Software And Professional Services PID Decoder

Table 35.0 Nutanix Software PID Decoder (WW-XX-YY-ZZ)

Identifier#1 (WW)	Identifier#2 (XX)	Identifier#3 (YY)	Identifier#4 (ZZ)
Nutanix Product Family:	Nutanix Software Type/Category:	License Tiers:	Support Tier:
	NCI: Nutanix Cloud Infrastructure		
	NCI-D: Nutanix Cloud Infrastructure Data		
	NCI-E: Nutanix Cloud Infrastructure Edge		
	EUC: End User Computing		PR: Production
	NCM: Nutanix Cloud Manager		MC: Mission Critical
	NME: Nutanix Cloud Manager Edge	STR: Starter	AP: (ASP Production)
NT	NCM-U: Nutanix Cloud Manager End User Computing	PRO: Professional ULT: Ultimate	AM: (ASP Mission Critical)
	NCP: Nutanix Cloud Platform		FP: US Federal Production
	NUS: Nutanix Unified Storage™		FM: US Federal Mission Critical
	NDL: Nutanix Data Lens		
	NKP: Nutanix Kubernetes Platform		
NOTE: Note for example "NT-NCI-STR-PR" PID can be decoded as, NT=Nutanix, NCI=Nutanix Cloud Infrastructure, STR=Starter, PR=Production			

Table 35.1 Nutanix Professional Services PID Decoder (WW-XX-YY-ZZ)

Identifier#1 (WW)	Identifier#2 (XX)	Identifier#3 (YY)	Identifier#4 (ZZ)
Nutanix Product Family:	Nutanix Professional Services Offering:	Nutanix Product Tier:	Nutanix Professional Services Option:
NT NOTE: Note for a	Design W-DS: NCI Design Workshop W-SSD: NCM Self-Service Design Workshop W-OD: NCM Intelligent Operations Design Workshop Deploy S-DP: NCI Cluster Deployment or Expansion S-OP: NCM Intelligent Operations Deployment F-SS: FastTrack for NCM Self-Service F-CG: FastTrack for NCM Cost Governance Migrate W-MG: Virtual Machine Migration Workshop S-MG-VM: Virtual Machine Migration Custom FLEX-CST-CR: Flexible Credits	STR: Starter PRO: Professional ULT: Ultimate	Design ED: Enhanced Documentation SD: Standard Documentation Deploy AV-PB: Pro AHV Nodes Base AV-PV: Pro AHV Nodes Variable EX-PB: Pro ESX Nodes Base EX-PV: Pro ESX Nodes Variable AV-SB: Starter AHV Nodes Variable EX-SB: Starter AHV Nodes Base EX-SV: Starter ESX Nodes Variable EX-SB: Starter ESX Nodes Variable EX-SB: Starter ESX Nodes Variable EX-SV: Starter ESX Nodes Variable AVB: Starter AHV Nodes Variable EXB: Starter ESX Nodes Variable EXB: Starter ESX Nodes Variable EXU: Starter ESX Nodes Variable EX-UB: Ultimate AHV Nodes Base EX-UV: Ultimate ESX Nodes Variable EX-US: Ultimate ESX Nodes Variable
NOTE: Note for example "NT-W-DS-STR-SD" PID can be decoded as, NT=Nutanix, W-DS= Design Workshop, STR=Starter, SD=			

Cisco Compute Hyperconverged with Nutanix

Standard Documentation

Nutanix Software PIDs and Description

Table 36 Software Options and Metric

Software Option	Software Description	Metric
Nutanix Cloud Infrastructure (NCI)	NCI is a complete software stack to unify your hybrid cloud infrastructure including compute, storage and network, hypervisors, and containers, in public or enterprise clouds	
Nutanix Cloud Infrastructure Data (NCI-D)	Delivers rich data and storage services but does not include Nutanix compute and networking capabilities. No support for AHV	Per Core
Nutanix Cloud Infrastructure Edge (NCI-Edge)	Nutanix Cloud Infrastructure - Edge (NCI-Edge) provides a distributed infrastructure platform for small edge deployments. NCI-Edge provides the same capabilities as NCI, combining compute, storage, and networking resources from a cluster of servers into a single logical pool with integrated resiliency, security, performance, and simplified administration.	Per VM
Nutanix Cloud Manager (NCM)	NCM offers intelligent operations, self service and orchestration, visibility and governance of spend, security and teams	Per Core
Nutanix Cloud Manager Edge (NCM-E)	Provides NCM capabilities for Edge deployments	Per VM
Nutanix Cloud Manager EUC (NCM-U)	Provides NCM capabilities in VDI use cases	Per User
Nutanix Cloud Platform (NCP)	Bundle for NCI and NCM	Per Core
Nutanix Unified Storage™ (NUS)	Nutanix Unified Storage™ (NUS) is a software-defined data services platform that consolidates the management and protection of siloed block, file, and object storage into a single, unified platform.	Per TIB
Nutanix Data Lens (NDL)	Nutanix Data Lens is a SaaS-based cyberstorage solution offering ransomware resilience and global data visibility for unstructured data on Nutanix Unified Storage (NUS).	Per TIB
End User Computing (EUC)	on-prem VDI and Desktop as a Service (DaaS) use cases	Per User
Nutanix Kubernetes Platform (NKP)	Nutanix Kubernetes Platform (NKP) combines the Nutanix Kubernetes Engine (NKE) features with their acquisition of the D2iQ product family to bring a consolidated runtime, orchestration, and management environment to our cloud native customers.	Per Core/Per VM ¹

Notes:

1. For NKP FS STR/PRO/ULT, the metric is calculated per core, whereas for NKP PRO/ULT, the calculated is measured per VM.

Table 37 Nutanix Software License Tiers

NCI Starter	NCI Professional	NCI Ultimate
Core set of software functionality	Rich data services, resilience and management features	Full suite of Nutanix software capabilities to tackle complex infrastructure challenges
Ideal for: Small-scale deployments with a limited set of workloads (on-prem only)	Ideal for: Running multiple applications or large-scale single workload deployments (on-prem or in public clouds)	Ideal for: Multi-site deployments and advanced security requirements (on-prem or in public clouds)



- Prism Central will be required for all licensing actions.
- Licenses are portable across Cisco hardware platforms in HCL.

(1) Nutanix Cloud Infrastructure (NCI):

Nutanix Cloud Infrastructure (NCI) converges the entire datacenter stack, including compute, storage, storage networking, and virtualization and is at the core of creating a hyperconverged infrastructure environment. Complex and expensive legacy infrastructure is replaced by NCI, running on industry-standard servers loaded with the latest hardware technologies. This allows enterprises to deploy what you need for the short term, and scale on-demand as infrastructure needs increase over time. Each server, often referred to as a node in the context of HCI, is an x86 platform with direct-attached storage drives. NCI software runs on each node, distributing all operating functions across the cluster for superior performance and resilience, and enabling seamless scalability.

- For more information about Nutanix Cloud Infrastructure (NCI), please visit https://www.nutanix.com/products/nutanix-cloud-infrastructure
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. for the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- The quantity of NCI license must match with total number for processor cores in hardware platforms.

Table 38.0 Nutanix Cloud Infrastructure (NCI)

Product ID (PID)	PID Description
STR - STARTER	
NT-NCI-STR-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & Production Software Support Service for 1 CPU Core
NT-NCI-STR-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCI-STR-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)

Table 38.0 Nutanix Cloud Infrastructure (NCI)

NT-NCI-STR-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)	
NT-NCI-STR-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & Federal Production Software Support Service for 1 CPU Core	
NT-NCI-STR-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & Federal Mission Critical Software Support Service for 1 CPU Core	
PRO - PROFESSIONA	AL .	
NT-NCI-PRO-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License & Production Software Support Service for 1 CPU Core	
NT-NCI-PRO-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License & Mission Critical Software Support Service for 1 CPU Core	
NT-NCI-PRO-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Professional Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)	
NT-NCI-PRO-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Professional Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)	
NT-NCI-PRO-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License & Federal Production Software Support Service for 1 CPU Core	
NT-NCI-PRO-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core	
ULT - ULTIMATE		
NT-NCI-ULT-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Production Software Support Service for 1 CPU Core	
NT-NCI-ULT-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core	
NT-NCI-ULT-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)	
NT-NCI-ULT-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)	
NT-NCI-ULT-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core	
NT-NCI-ULT-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core	
ADVANCED REPLICA	ATION	
NT-A-NCI-ADR-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & Production Software Support Service for 1 CPU Core	

Table 38.0 Nutanix Cloud Infrastructure (NCI)

NT-A-NCI-ADR-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & Mission Critical Software Support Service for 1 CPU Core
NT-A-NCI-ADR-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-ADR-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-ADR-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & Federal Production Software Support Service for 1 CPU Core
NT-A-NCI-ADR-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & Federal Mission Critical Software Support Service for 1 CPU Core
SECURITY	
NT-A-NCI-SEC-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & Production Software Support Service for 1 CPU Core
NT-A-NCI-SEC-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & Mission Critical Software Support Service for 1 CPU Core
NT-A-NCI-SEC-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-SEC-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-SEC-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & Federal Production Software Support Service for 1 CPU Core
NT-A-NCI-SEC-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & Federal Mission Critical Software Support Service for 1 CPU Core

Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(2) Nutanix Cloud Infrastructure Data (NCI-D):

Nutanix supports freedom of choice of hypervisor and container platform, by offering a version called NCI Data that delivers rich data and storage services but does not include Nutanix compute and networking capabilities. Support for Hypervisor specific features, such as GPU support on ESXi, is not impacted by NCI Data licensing tiers.



- For more information about Nutanix Cloud Infrastructure (NCI), please visit https://www.nutanix.com/products/nutanix-cloud-infrastructure
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options Please note, the grey rows in the software options table under NCI are not included in NCI Data.
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. for the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- The quantity of NCI-D license must match with total number for processor cores in hardware platforms.

Table 38.1 Nutanix Cloud Infrastructure Data (NCI-D)

Product ID (PID)	PID Description
STR - STARTER	
NT-NCI-D-STR-PR	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Starter Software License & Production Software Support Service for 1 CPU Core
NT-NCI-D-STR-MC	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Starter Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCI-D-STR-AP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Starter Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCI-D-STR-AM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Starter Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCI-D-STR-FP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Starter Software License & Federal Production Software Support Service for 1 CPU Core

Table 38.1 Nutanix Cloud Infrastructure Data (NCI-D)

NT-NCI-D-STR-FM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Starter Software License & Federal Mission Critical Software Support Service for 1 CPU Core	
PRO - PROFESSIONAL		
NT-NCI-D-PRO-PR	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Pro Software License & Production Software Support Service for 1 CPU Core	
NT-NCI-D-PRO-MC	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Pro Software License & Mission Critical Software Support Service for 1 CPU Core	
NT-NCI-D-PRO-AP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Pro Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)	
NT-NCI-D-PRO-AM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Pro Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)	
NT-NCI-D-PRO-FP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Pro Software License & Federal Production Software Support Service for 1 CPU Core	
NT-NCI-D-PRO-FM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core	
ULT - ULTIMATE		
NT-NCI-D-ULT-PR	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Ultimate Software License & Production Software Support Service for 1 CPU Core	
NT-NCI-D-ULT-MC	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core	
NT-NCI-D-ULT-AP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)	
NT-NCI-D-ULT-AM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Ultimate Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)	
NT-NCI-D-ULT-FP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core	
NT-NCI-D-ULT-FM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core	
ADVANCED REPLICAT	TION	
NT-A-NCI-D-ADR-PR	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Advanced Replication add-on Software License & Production Software Support Service for 1 CPU Core	
NT-A-NCI-D-ADR-MC	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Advanced Replication add-on Software License & Mission Critical Software Support Service for 1 CPU Core	

Table 38.1 Nutanix Cloud Infrastructure Data (NCI-D)

NT-A-NCI-D-ADR-AP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Advanced Replication add-on Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-D-ADR-AM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Advanced Replication add-on Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-D-ADR-FP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Advanced Replication add-on Software License & Federal Production Software Support Service for 1 CPU Core
NT-A-NCI-D-ADR-FM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Advanced Replication add-on Software License & Federal Mission Critical Software Support Service for 1 CPU Core
SECURITY	
NT-A-NCI-D-SEC-PR	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Security add-on Software License & Production Software Support Service for 1 CPU Core
NT-A-NCI-D-SEC-MC	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Security add-on Software License & Mission Critical Software Support Service for 1 CPU Core
NT-A-NCI-D-SEC-AP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Security add-on Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-D-SEC-AM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Security add-on Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-D-SEC-FP	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Security add-on Software License & Federal Production Software Support Service for 1 CPU Core
NT-A-NCI-D-SEC-FM	Subscription, Nutanix Cloud Infrastructure Data (NCI-D) Security add-on Software License & Federal Mission Critical Software Support Service for 1 CPU Core

Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(3) Nutanix Cloud Infrastructure Edge (NCI-E):

Nutanix Cloud Infrastructure - Edge (NCI-E) provides a distributed infrastructure platform for small edge deployments. NCI-Edge provides the same capabilities as NCI, combining compute, storage, and networking resources from a cluster of servers into a single logical pool with integrated resiliency, security, performance, and simplified administration. With NCI-Edge, organizations can efficiently extend the Nutanix platform to remote office/branch office (ROBO) and other edge use cases.

- 1 TiB of NUS Pro per NCI-Edge cluster is included at no cost with NCI-Edge.
- NCI-Edge licenses must run on a dedicated licensed cluster with no core-based licensing. Mixing of NCI-Edge licenses with other types of NCI licensing within a cluster is not supported.
- NCI-Edge can be used with any cluster deployment type as long as the conditions mentioned are followed.
- Maximum nodes for the Edge cluster is 5.



- For more information about Nutanix Cloud Infrastructure (NCI), please visit https://www.nutanix.com/products/nutanix-cloud-infrastructure
- For more information about Nutanix NCI Edge software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level
 - Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?sh ow=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix. Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. for the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- NCI-Edge is limited to a maximum of 25 VMs in a cluster, with each VM being limited to a maximum of 96GB of memory.
- The quantity of NCI-Edge license must match with Total number for VMs running in the cluster.
- For the purpose of calculation, internal VMs (or Nutanix infrastructure VMs) such are Controller VM or Prism Central VM are not counted.

Table 38.2 Nutanix Cloud Infrastructure Edge (NCI-E)

Product ID (PID)	PID Description
STR - STARTER	
NT-NCI-E-STR-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License for Edge sites & Production Software Support Service for 1 VM
NT-NCI-E-STR-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License for Edge sites & Mission Critical Software Support Service for 1 VM
NT-NCI-E-STR-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License for Edge sites & L3 Production Software Support Service for 1 VM (Authorized Support Partners provides L1, L2 support)

Table 38.2 Nutanix Cloud Infrastructure Edge (NCI-E)

NT-NCI-E-STR-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License for Edge sites & L3 Mission Critical Software Support Service for 1 VM (Authorized Support Partners provides L1, L2 support)	
NT-NCI-E-STR-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License for Edge sites & Federal Production Software Support Service for 1 VM	
NT-NCI-E-STR-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License for Edge sites & Federal Mission Critical Software Support Service for 1 VM	
PRO - PROFESSIONAL		
NT-NCI-E-PRO-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License for Edge sites & Production Software Support Service for 1 VM	
NT-NCI-E-PRO-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License for Edge sites & Mission Critical Software Support Service for 1 VM	
NT-NCI-E-PRO-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License for Edge sites & L3 Production Software Support Service for 1 VM (Authorized Support Partners provides L1, L2 support)	
NT-NCI-E-PRO-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License for Edge sites & L3 Mission Critical Software Support Service for 1 VM (Authorized Support Partners provides L1, L2 support)	
NT-NCI-E-PRO-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License for Edge sites & Federal Production Software Support Service for 1 VM	
NT-NCI-E-PRO-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License for Edge sites & Federal Mission Critical Software Support Service for 1 VM	
ULT - ULTIMATE		
NT-NCI-E-ULT-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License for Edge sites & Production Software Support Service for 1 VM	
NT-NCI-E-ULT-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License for Edge sites & Mission Critical Software Support Service for 1 VM	
NT-NCI-E-ULT-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License for Edge sites & L3 Production Software Support Service for 1 VM (Authorized Support Partners provides L1, L2 support)	
NT-NCI-E-ULT-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License for Edge sites & L3 Mission Critical Software Support Service for 1 VM (Authorized Support Partners provides L1, L2 support)	
NT-NCI-E-ULT-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License for Edge sites & Federal Production Software Support Service for 1 VM	
NT-NCI-E-ULT-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License for Edge sites & Federal Mission Critical Software Support Service for 1 VM	

Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(4) End User Computing (EUC):

Per user model offers hybrid cloud infrastructure capabilities appropriate for on-prem virtual desktop infrastructure (VDI) and Desktop as a Service (DaaS) use cases with pricing based on a Maximum Concurrent User basis (maximum number of provisioned end-user VMs). EUC per user is an alternative to the core-based NCI licensing option and is designed to provide simple, transparent licensing for all VDI users, regardless of the underlying hardware, hypervisor, or cloud.

- Agnostic: Works with any EUC management platform including Citrix Virtual Apps & Desktops and VMware Horizon
- Term license: Term license must run on a dedicated software licensed VDI cluster with no core-based licensing. Mixing of non-VDI workloads is not supported
- Unified Storage: Built-in and also available as a per TiB base add-on
- No additional license cost for DR site
- Portable across on-premises and public cloud, public cloud use requires Ultimate edition
- Available in Starter, Pro, and Ultimate editions
- Cloud Native and Database Service Add-ons not available with NCI EUC. Advanced Replication and Security Add-on features require NCI Ultimate edition

	EUC STARTER	EUC PROFESSIONAL	VDI ULTIMATE
NCI Feature Set	Everything in NCI Starter	Everything in NCI Professional	Everything in NCI Ultimate
Nutanix Unified Storage	1 TiB Free Capacity	50 GB Per User	100GB Per User



- For more information on End User Computing (EUC), please visit https://www.nutanix.com/solutions/end-user-computing
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- If the end user wants to run a mixed workload on same server (virtual machines that are not part of the VDI environment), NCI license is required.
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level
 - Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?sh ow=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix. Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. for the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- For 'PURE" EUC/VDI environment, there is no NCI license required.

Table 38.3 End User Computing (EUC)

Product ID (PID)	DID Description
Product ID (PID)	Fib bescription

Table 38.3 End User Computing (EUC)

STR - STARTER	
NT-EUC-STR-PR	Subscription, End User Computing (EUC) Starter Software License & Production Software Support Service for 1 User
NT-EUC-STR-MC	Subscription, End User Computing (EUC) Starter Software License & Mission Critical Software Support Service for 1 User
NT-EUC-STR-AP	Subscription, End User Computing (EUC) Starter Software License & L3 Production Software Support Service for 1 User (Authorized Support Partners provides L1, L2 support)
NT-EUC-STR-AM	Subscription, End User Computing (EUC) Starter Software License & L3 Mission Critical Software Support Service for 1 User (Authorized Support Partners provides L1, L2 support)
NT-EUC-STR-FP	Subscription, End User Computing (EUC) Starter Software License & Federal Production Software Support Service for 1 User
NT-EUC-STR-FM	Subscription, End User Computing (EUC) Starter Software License & Federal Mission Critical Software Support Service for 1 User
PRO- PROFESSION	NAL
NT-EUC-PRO-PR	Subscription, End User Computing (EUC) Pro Software License & Production Software Support Service for 1 User
NT-EUC-PRO-MC	Subscription, End User Computing (EUC) Pro Software License & Mission Critical Software Support Service for 1 User
NT-EUC-PRO-AP	Subscription, End User Computing (EUC) Pro Software License & L3 Production Software Support Service for 1 User (Authorized Support Partners provides L1, L2 support)
NT-EUC-PRO-AM	Subscription, End User Computing (EUC) Pro Software License & L3 Mission Critical Software Support Service for 1 User (Authorized Support Partners provides L1, L2 support)
NT-EUC-PRO-FP	Subscription, End User Computing (EUC) Pro Software License & Federal Production Software Support Service for 1 User
NT-EUC-PRO-FM	Subscription, End User Computing (EUC) Pro Software License & Federal Mission Critical Software Support Service for 1 User
ULT - ULTIMATE	
NT-EUC-ULT-PR	Subscription, End User Computing (EUC) Ultimate Software License & Production Software Support Service for 1 User
NT-EUC-ULT-MC	Subscription, End User Computing (EUC) Ultimate Software License & Mission Critical Software Support Service for 1 User
NT-EUC-ULT-AP	Subscription, End User Computing (EUC) Ultimate Software License & L3 Production Software Support Service for 1 User (Authorized Support Partners provides L1, L2 support)

Table 38.3 End User Computing (EUC)

NT-EUC-ULT-AM	Subscription, End User Computing (EUC) Ultimate Software License & L3 Mission Critical Software Support Service for 1 User (Authorized Support Partners provides L1, L2 support)
NT-EUC-ULT-FP	Subscription, End User Computing (EUC) Ultimate Software License & Federal Production Software Support Service for 1 User
NT-EUC-ULT-FM	Subscription, End User Computing (EUC) Ultimate Software License & Federal Mission Critical Software Support Service for 1 User

Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(5) Nutanix Cloud Manager (NCM):

Nutanix Cloud Manager (NCM) is a hybrid multi-cloud management platform for building a cloud operating model. NCM provides Intelligent Operations, Self-Service, Cost Governance, and Security natively with the Nutanix Platform or through a SaaS subscription.

- Self-service VMs and Apps are defined via simple blueprints, easily created, and managed via GUI/CLI.
- Management of IT lifecycle includes visibility, optimization, and financial control over multi-cloud deployments.
- Detect, monitor, and remediate security vulnerabilities and compliance near real-time across multiple cloud environment



NOTE:

■ For more information Nutanix Cloud Manager (NCM), please visit https://www.nutanix.com/products/cloud-manager

software support will default to the lower option.

- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level

 Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- The quantity of NCM license must match with total number for processor cores in hardware platforms.

Table 38.4 Nutanix Cloud Manager (NCM)

Product ID (PID)	PID Description
STR - STARTER	
NT-NCM-STR-PR	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & Production Software Support Service for 1 CPU Core
NT-NCM-STR-MC	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCM-STR-AP	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-STR-AM	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-STR-FP	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & Federal Production Software Support Service for 1 CPU Core

Table 38.4 Nutanix Cloud Manager (NCM)

NT-NCM-STR-FM	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & Federal Mission Critical Software Support Service for 1 CPU Core
PRO - PROFESSIONAL	
NT-NCM-PRO-PR	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCM-PRO-MC	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCM-PRO-AP	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-PRO-AM	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-PRO-FP	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCM-PRO-FM	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
ULT - ULTIMATE	
NT-NCM-ULT-PR	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCM-ULT-MC	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCM-ULT-AP	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-ULT-AM	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-ULT-FP	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCM-ULT-FM	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core
COST GOVERNANCE	
NT-NCM-CM-FP	Subscription, NCM Cost Governance as a Service for US Federal including Production Support for 1 VM
NT-NCM-CM-OV-FP	Overage, NCM Cost Governance as a Service for US Federal including Production Support for 1 VM
NT-NCM-CM-OV-PR	Overage, NCM Cost Governance as a Service including Production Support for 1 VM

Table 38.4 Nutanix Cloud Manager (NCM)

NT-NCM-CM-PR	Subscription, NCM Cost Governance as a Service including Production Support for 1 VM
SECURITY CENTRAL	
NT-NCM-SC-FP	Subscription, NCM Security Central as a Service for US Federal including Production Support for 1 VM
NT-NCM-SC-OV-FP	Overage, NCM Security Central as a Service for US Federal including Production Support for 1 VM
NT-NCM-SC-OV-PR	Overage, NCM Security Central as a Service including Production Support for 1 VM
NT-NCM-SC-PR	Subscription, NCM Security Central as a Service including Production Support for 1 VM
SELF SERVICE	
NT-NCM-SS-OV-PR	Overage, NCM Self-Service & Orchestration as a Service including Production Support for 1 VM
NT-NCM-SS-PR	Subscription, NCM Self-Service & Orchestration as a Service including Production Support for 1 VM

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

(6) Nutanix Cloud Manager Edge (NME):

Nutanix Cloud Manager (NCM) is a hybrid multi-cloud management platform for building a cloud operating model. NCM provides Intelligent Operations, Self-Service, Cost Governance, and Security natively with the Nutanix Platform or through a SaaS subscription.

- Self-service VMs and Apps are defined via simple blueprints, easily created, and managed via GUI/CLI.
- Management of IT lifecycle includes visibility, optimization, and financial control over multi-cloud deployments.
- Detect, monitor, and remediate security vulnerabilities and compliance near real-time across multiple cloud environment.



- For more information Nutanix Cloud Manager (NCM), please visit https://www.nutanix.com/products/cloud-manager
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level

 Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?sh
- ow=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix. Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- PC 2024.2 is the minimum requirement for these licenses to be applied. Check and confirm the release schedule of PC before ordering these licenses.
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html

Table 38.5 Nutanix Cloud Manager Edge (NME)

Product ID (PID)	PID Description
STR - STARTER	
NT-NME-STR-PR	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for Edge Sites & Production Software Support Service per VM
NT-NME-STR-MC	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for Edge Sites & Mission Critical Software Support Service per VM
NT-NME-STR-AP	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for Edge Sites & L3 Production Software Support Service per VM (Authorized Support Partners provides L1, L2 support)
NT-NME-STR-AM	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for Edge Sites & L3 Mission Critical Software Support Service per VM (Authorized Support Partners provides L1, L2 support)
NT-NME-STR-FP	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for Edge Sites & FED Production Software Support Service per VM

Table 38.5 Nutanix Cloud Manager Edge (NME)

NT-NME-STR-FM	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for Edge Sites & FED Mission Critical Software Support Service per VM	
PRO- PROFESSIONAL	PRO- PROFESSIONAL	
NT-NME-PRO-PR	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for Edge Sites & Production Software Support Service per VM	
NT-NME-PRO-MC	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for Edge Sites & Mission Critical Software Support Service per VM	
NT-NME-PRO-AP	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for Edge Sites & L3 Production Software Support Service per VM (Authorized Support Partners provides L1, L2 support)	
NT-NME-PRO-AM	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for Edge Sites & L3 Mission Critical Software Support Service per VM (Authorized Support Partners provides L1, L2 support)	
NT-NME-PRO-FP	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for Edge Sites & FED Production Software Support Service per VM	
NT-NME-PRO-FM	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for Edge Sites & FED Mission Critical Software Support Service per VM	
ULT - ULTIMATE		
NT-NME-ULT-PR	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for Edge Sites & Production Software Support Service per VM	
NT-NME-ULT-MC	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for Edge Sites & Mission Critical Software Support Service per VM	
NT-NME-ULT-AP	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for Edge Sites & L3 Production Software Support Service per VM (Authorized Support Partners provides L1, L2 support)	
NT-NME-ULT-AM	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for Edge Sites & L3 Mission Critical Software Support Service per VM (Authorized Support Partners provides L1, L2 support)	
NT-NME-ULT-FP	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for Edge Sites & FED Production Software Support Service per VM	
NT-NME-ULT-FM	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for Edge Sites & FED Mission Critical Software Support Service per VM	

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

(7) Nutanix Cloud Manager EUC (NCM-U):

Nutanix Cloud Manager (NCM) is a hybrid multi-cloud management platform for building a cloud operating model. NCM provides Intelligent Operations, Self-Service, Cost Governance, and Security natively with the Nutanix Platform or through a SaaS subscription.

- Self-service VMs and Apps are defined via simple blueprints, easily created, and managed via GUI/CLI.
- Management of IT lifecycle includes visibility, optimization, and financial control over multi-cloud deployments.
- Detect, monitor, and remediate security vulnerabilities and compliance near real-time across multiple cloud environment.



- For more information Nutanix Cloud Manager (NCM), please visit https://www.nutanix.com/products/cloud-manager
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- PC 2024.2 is the minimum requirement for these licenses to be applied. Check and confirm the release schedule of PC before ordering these licenses.
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html

Table 38.6 Nutanix Cloud Manager EUC (NCM-U)

Product ID (PID)	PID Description
STR - STARTER	
NT-NCM-U-STR-PR	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for EUC & Production Software Support Service per User
NT-NCM-U-STR-MC	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for EUC & Mission Critical Software Support Service per User
NT-NCM-U-STR-AP	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for EUC & L3 Production Software Support Service per User (Authorized Support Partners provides L1, L2 support)
NT-NCM-U-STR-AM	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for EUC & L3 Mission Critical Software Support Service per User (Authorized Support Partners provides L1, L2 support)
NT-NCM-U-STR-FP	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for EUC & FED Production Software Support Service per User

Table 38.6 Nutanix Cloud Manager EUC (NCM-U)

NT-NCM-U-STR-FM	Subscription, Nutanix Cloud Manager (NCM) Starter Software License for EUC & FED Mission Critical Software Support Service per User
PRO - PROFESSIONAL	
NT-NCM-U-PRO-PR	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for EUC & Production Software Support Service per User
NT-NCM-U-PRO-MC	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for EUC & Mission Critical Software Support Service per User
NT-NCM-U-PRO-AP	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for EUC & L3 Production Software Support Service per User (Authorized Support Partners provides L1, L2 support)
NT-NCM-U-PRO-AM	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for EUC & L3 Mission Critical Software Support Service per User (Authorized Support Partners provides L1, L2 support)
NT-NCM-U-PRO-FP	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for EUC & FED Production Software Support Service per User
NT-NCM-U-PRO-FM	Subscription, Nutanix Cloud Manager (NCM) Professional Software License for EUC & FED Mission Critical Software Support Service per User
ULT - ULTIMATE	
NT-NCM-U-ULT-PR	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for EUC & Production Software Support Service per User
NT-NCM-U-ULT-MC	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for EUC & Mission Critical Software Support Service per User
NT-NCM-U-ULT-AP	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for EUC & L3 Production Software Support Service per User (Authorized Support Partners provides L1, L2 support)
NT-NCM-U-ULT-AM	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for EUC & L3 Mission Critical Software Support Service per User (Authorized Support Partners provides L1, L2 support)
NT-NCM-U-ULT-FP	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for EUC & FED Production Software Support Service per User
NT-NCM-U-ULT-FM	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License for EUC & FED Mission Critical Software Support Service per User

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

(8) Nutanix Cloud Platform (NCP):

Nutanix Cloud Infrastructure (NCI) and Nutanix Cloud Manager (NCM) can be purchased together in 'better together' Nutanix Cloud Platform (NCP) bundles:

Nutanix Cloud Platform (NCP)	Nutanix Cloud Infrastructure (NCI) included	Nutanix Cloud Manager (NCM) Edition included
NCP Starter	NCI Professional	NCM Professional
NCP Professional	NCI Ultimate	NCM Professional
NCP Ultimate	NCI Ultimate	NCM Ultimate



- For more information on Nutanix Cloud Platform (NCP) bundles, please visit https://www.nutanix.com/products/cloud-platform/software-options
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines
 - (https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordi on-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix. Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit
 - https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- The total number of cores for NCI and NCM should be same
- The support tiers for NCI and NCM should be same

Table 38.7 Nutanix Cloud Platform (NCP)

Product ID (PID)	PID Description
STR - STARTER	
NT-NCP-STR-PR	Subscription, Nutanix Cloud Platform Starter Software License & Production Software Support Service for 1 CPU Core
NT-NCP-STR-MC	Subscription, Nutanix Cloud Platform Starter Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-STR-AP	Subscription, Nutanix Cloud Platform Starter Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-STR-AM	Subscription, Nutanix Cloud Platform Starter Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)

Table 38.7 Nutanix Cloud Platform (NCP)

1	
NT-NCP-STR-FP	Subscription, Nutanix Cloud Platform Starter Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-STR-FM	Subscription, Nutanix Cloud Platform Starter Software License & Federal Mission Critical Software Support Service for 1 CPU Core
PRO- PROFESSIONAL	
NT-NCP-PRO-PR	Subscription, Nutanix Cloud Platform Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCP-PRO-MC	Subscription, Nutanix Cloud Platform Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-PRO-AP	Subscription, Nutanix Cloud Platform Pro Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-PRO-AM	Subscription, Nutanix Cloud Platform Pro Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-PRO-FP	Subscription, Nutanix Cloud Platform Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-PRO-FM	Subscription, Nutanix Cloud Platform Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
ULT-ULTIMATE	
NT-NCP-ULT-PR	Subscription, Nutanix Cloud Platform Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCP-ULT-MC	Subscription, Nutanix Cloud Platform Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-ULT-AP	Subscription, Nutanix Cloud Platform Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-ULT-AM	Subscription, Nutanix Cloud Platform Ultimate Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-ULT-FP	Subscription, Nutanix Cloud Platform Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-ULT-FM	Subscription, Nutanix Cloud Platform Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCI PROFESSIONAL	
NT-NCP-NCI-PRO-PR	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCI-PRO-MC	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & Mission Critical Software Support Service for 1 CPU Core

Table 38.7 Nutanix Cloud Platform (NCP)

NT-NCP-NCI-PRO-AP	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCI-PRO-AM	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCI-PRO-FP	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-NCI-PRO-FM	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCI ULTIMATE	
NT-NCP-NCI-ULT-PR	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCI-ULT-MC	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-NCI-ULT-AP	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCI-ULT-AM	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCI-ULT-FP	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-NCI-ULT-FM	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCM PROFESSIONAL	
NT-NCP-NCM-PRO-PR	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCM-PRO-MC	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-NCM-PRO-AP	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCM-PRO-AM	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCM-PRO-FP	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-NCM-PRO-FM	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
	-

Table 38.7 Nutanix Cloud Platform (NCP)

NCM ULTIMATE	
NT-NCP-NCM-ULT-PR	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCM-ULT-MC	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-NCM-ULT-AP	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCM-ULT-AM	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCM-ULT-FP	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-NCM-ULT-FM	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core



NOTE:

- The total number of cores for NCI and NCM should be same
- The support tiers for NCI and NCM should be same.

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

(9) Nutanix Unified Storage™ (NUS):

Nutanix Unified Storage[™] (NUS) is a software-defined data services platform that consolidates the management and protection of siloed block, file, and object storage into a single, unified platform. NUS harnesses the power of rich data services such as analytics, ransomware protection, lifecycle management, and data protection. These features enable organizations to seamlessly adapt to the ever-changing requirements of modern applications, allowing them to shift their management focus from data storage to data management. Leveraging the Nutanix Cloud Platform[™] (NCP) software, NUS is specifically built to meet the needs of modern applications deployed across core, cloud, and edge infrastructure. With its capacity for seamless scaling, high performance, and integrated data security, NUS provides a comprehensive solution for organizations.

Includes:

- Nutanix Files Storage: simple and secure software-defined scale-out file storage solution to store, manage, and scale files data (NFS and SMB)
- Nutanix Objects Storage: distributed scale-out S3-compatible object storage for both archive and high-performance analytics
- Nutanix Volumes Storage: high-performance low-latency block storage
- Nutanix Data Lens: available as an add-on for data analytics, anomaly behavior detection and ransomware protection
- Nutanix AOS: scale-out storage technology that makes hyperconverged infrastructure (HCI) possible.
- Nutanix AHV: lightweight cloud hypervisor built into Nutanix platform and offers enterprise-grade storage capabilities and built-in Kubernetes support.
- App VMs running on storage: NUS dedicated clusters are entitled to 1 app/user VM per node in the cluster. NCI clusters don't have any limit on the number of app/user VMs on the cluster.



- For more information Nutanix Unified Storage™ (NUS), please visit https://www.nutanix.com/products/cloud-platform/software-options#nus
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html

Table 38.8 Nutanix Unified Storage™ (NUS)

Product ID (PID)	PID Description		
PRO - PROFESSIONAL			
NT-NUS-PRO-PR	Nutanix Unified Storage Professional Software License & Production Software Support for 1 TiB		
NT-NUS-PRO-MC	Nutanix Unified Storage Professional Software License & Mission Critical Software Support for 1 TiB		
NT-NUS-PRO-AP	Nutanix Unified Storage Professional Software License & L3 Production Software Support for 1 TiB (Authorized Support Partners provides L1, L2 support)		
NT-NUS-PRO-AM	Nutanix Unified Storage Professional Software License & L3 Mission Critical Software Support for 1 TiB (Authorized Support Partners provides L1, L2 support)		
NT-NUS-PRO-FP	Nutanix Unified Storage Professional Software License & Federal Production Software Support for 1 TiB		
NT-NUS-PRO-FM	Nutanix Unified Storage Professional Software License & Federal Mission Critical Software Support for 1 TiB		
ADVANCED REPLICATION	DN		
NT-A-NUS-ADR-PR	Nutanix Unified Storage Advanced Replication add-on Software License & Production Software Support 1 TiB		
NT-A-NUS-ADR-MC	Nutanix Unified Storage Advanced Replication add-on Software License & Mission Critical Software Support 1 TiB		
NT-A-NUS-ADR-AP	Nutanix Unified Storage Advanced Replication add-on Software License & L3 Production Software Support 1 TiB (Authorized Support Partners provides L1, L2 support)		
NT-A-NUS-ADR-AM	Nutanix Unified Storage Advanced Replication add-on Software License & L3 Mission Critical Software Support 1 TiB (Authorized Support Partners provides L1, L2 support)		
NT-A-NUS-ADR-FP	Nutanix Unified Storage Advanced Replication add-on Software License & Federal Production Software Support 1 TiB		
NT-A-NUS-ADR-FM	Nutanix Unified Storage Advanced Replication add-on Software License & Federal Mission Critical Support 1 TiB		
SECURITY	SECURITY		
NT-A-NUS-SEC-PR	Nutanix Unified Storage Security add-on Software License & Production Software Support 1 TiB		
NT-A-NUS-SEC-MC	Nutanix Unified Storage Security add-on Software License & Mission Critical Software Support 1 TiB		
NT-A-NUS-SEC-AP	Nutanix Unified Storage Security add-on Software License & L3 Production Software Support 1 TiB (Authorized Support Partners provides L1, L2 support)		
NT-A-NUS-SEC-AM	Nutanix Unified Storage Security add-on Software License & L3 Mission Critical Software Support 1 TiB (Authorized Support Partners provides L1, L2 support)		

Table 38.8 Nutanix Unified Storage™ (NUS)

NT-A-NUS-SEC-FP	Nutanix Unified Storage Security add-on Software License & Federal Production Software Support 1 TiB
NT-A-NUS-SEC-FM	Nutanix Unified Storage Security add-on Software License & Federal Mission Critical Software Support 1 TiB

Table 38.8.a Nutanix Unified Storage Allowed Capacity

lutanix Unified Storage	Nutanix Unified Storage Support Tier	Storage Capacity Allowed (TIB)
		1-50
		75
		100
		150
		200
		250
		300
		350
		400
		450
		500
		550
		600
Pro (Professional) License Tier		700
(NT-NUS-PRO-*)		800
Advanced Replication	Production	900
(NT-A-NUS-ADR-*)	Mission Critical Federal Production	1000
		1200
Security	Federal Mission Critical	1400
(NT-A-NUS-SEC-*)		1600
		1800
		2000
		2200
		2400
		2600
		2800
		3000
		4000
		5000
		6000
		7000
		8000
		9000
		10000

(10) Nutanix Data Lens (NDL):

Nutanix Data Lens is a SaaS-based cyberstorage solution offering ransomware resilience and global data visibility for unstructured data on Nutanix Unified Storage (NUS). This cloud-based data analytics service proactively assesses and mitigates data security risks by identifying anomalous activity, auditing user behavior, and adhering to compliance requirements. while enabling efficient data lifecycle management.

Nutanix Data Lens is currently offered through a "Freemium" licensing model, consisting of two tiers:

- 1. "Free Tier" comprises limited capabilities that are available perpetually free for NUS Pro customers
- 2. "Premium Tier" comprises extended capabilities, including Ransomware security, and is licensed on a per TiB basis for all NUS customers.

Self-service onboarding for current Nutanix Unified Storage Customers through My Nutanix Portal.



- For more information Nutanix Data Lens (NDL), please visit https://www.nutanix.com/products/cloud-platform/software-options#nus
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html

Table 38.9 Nutanix Data Lens (NDL)

Product ID (PID)	PID Description
NDL	
NT-NDL-PR	Nutanix Data Lens as a hosted service including Production Support for 1 TiB
NT-NDL-FP	Nutanix Data Lens as a hosted service incl Fed Production Support for 1 TiB

Table 38.9.a Nutanix Data Lens Allowed Capacity

Nutanix Data Lens	Nutanix Data Lens Support Tier	Storage Capacity Allowed (TIB)
		1-50
		75
		100
		150
		200
		250
		300
		350
		400
		450
		500
		550
	Production	600
NDL		700
	Federal Production	800
		900
		1000
		1200
		1400
		1600
		1800
		2000
		2200
		2400
		2600
		2800
		3000

(11) Nutanix Kubernetes Platform (NKP):

Nutanix Kubernetes Platform (NKP) combines the Nutanix Kubernetes Engine (NKE) features with their acquisition of the D2iQ product family to bring a consolidated runtime, orchestration, and management environment to our cloud native customers. The SKUs have two ordering options:

- 1. NKP Full Stack (Starter, Pro & Ultimate) This includes the Complete Nutanix stack, bundling NCI, NDK and NKP. This is core based licensing (for all cores in cluster) and feature/capability inclusions depend on the whether it's starter, Pro or Ultimate. This is suitable for customers who will have Nutanix clusters exclusively for container workloads.
- 2. NKP (Pro & Ultimate) NKP Starter is Bundled with NCI Pro and Ultimate . This adds NKP to existing NCI deployments (for AHV, ESXi, AWS EC2 & Azure). The Kubernetes and associated NKP functionality is provided by running master and worker node VMs on NCI. This is licensed on vCPU for the workload VMs that will be deployed. This is suitable for customers who already have Nutanix NCI clusters.



- For more information about Nutanix Kubernetes Platform (NKP), please visit https://www.nutanix.com/products/cloud-platform/software-options#nkp
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level
 - Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?sh ow=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix. Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- The quantity of NKP license must match with total number for processor cores in hardware platforms.

Table 38.10 Nutanix Kubernetes Platform (NKP)

Product ID (PID)	PID Description				
FS STR - FULL STACE	FS STR - FULL STACK STARTER				
NT-NKP-FS-STR-PR	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and Production Software Support Service for 1 CPU Core				
NT-NKP-FS-STR-MC	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and Mission Critical Software Support Service for 1 CPU Core				
NT-NKP-FS-STR-AP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)				
NT-NKP-FS-STR-AM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)				

Table 38.10 Nutanix Kubernetes Platform (NKP)

NT-NKP-FS-STR-FP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and Federal Production Software Support Service for 1 CPU Core
NT-NKP-FS-STR-FM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and Federal Mission Critical Software Support Service for 1 CPU Core
FS PRO - FULL STAC	K PROFESSIONAL
NT-NKP-FS-PRO-PR	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Production Software Support Service for 1 CPU Core
NT-NKP-FS-PRO-MC	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Mission Critical Software Support Service for 1 CPU Core
NT-NKP-FS-PRO-AP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NKP-FS-PRO-AM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NKP-FS-PRO-FP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Federal Production Software Support Service for 1 CPU Core
NT-NKP-FS-PRO-FM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Federal Mission Critical Software Support Service for 1 CPU Core
FS ULT - FULL STACE	K ULTIMATE
NT-NKP-FS-ULT-PR	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Production Software Support Service for 1 CPU Core
NT-NKP-FS-ULT-MC	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Mission Critical Software Support Service for 1 CPU Core
NT-NKP-FS-ULT-AP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NKP-FS-ULT-AM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NKP-FS-ULT-FP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Federal Production Software Support Service for 1 CPU Core
NT-NKP-FS-ULT-FM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Federal Mission Critical Software Support Service for 1 CPU Core
PRO - PROFESSIONA	L Control of the cont
NT-NKP-PRO-PR	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)

Table 38.10 Nutanix Kubernetes Platform (NKP)

NT-NKP-PRO-MC	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-PRO-AP	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and L3 Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal) (Authorized Support Partners provides L1, L2 support)
NT-NKP-PRO-AM	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and L3 Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal) (Authorized Support Partners provides L1, L2 support)
NT-NKP-PRO-FP	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and Federal Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-PRO-FM	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and Federal Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
ULT - ULTIMATE	
NT-NKP-ULT-PR	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-ULT-MC	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-ULT-AP	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and L3 Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal) (Authorized Support Partners provides L1, L2 support)
NT-NKP-ULT-AM	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and L3 Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal) (Authorized Support Partners provides L1, L2 support)
NT-NKP-ULT-FP	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and Federal Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-ULT-FM	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and Federal Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)

Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

Professional Services PIDs and Description

(1) NCI Design Workshop:

The Nutanix Cloud Infrastructure (NCI) Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for on-premises NCI clusters. It covers various aspects such as scalability, functionality, integration, and operational needs. This workshop is beneficial during the Design stage of a Hybrid Multicloud journey, especially for complex solutions that involve third-party applications and automation.



NOTE:

- For more information on NCI Design workshop, please visit https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/sd-nci-design-workshop.pdf
- For more information on Cisco version of Nutanix Professional services, please visit -

https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 39.0 NCI Design Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCI Starter	NT-W-DS-STR	NCI Design Workshop - Starter - Workshop Only	Starter	Workshop Only
NCI Starter	NT-W-DS-STR-ED	NCI Design Workshop - Starter - Enhanced Doc	Starter	Enhanced Documentation
NCI Starter	NT-W-DS-STR-SD	NCI Design Workshop - Starter - Standard Doc	Starter	Standard Documentation
NCI Pro	NT-W-DS-PRO	NCI Design Workshop - Pro - Workshop Only	Pro	Workshop Only
NCI Pro	NT-W-DS-PRO-ED	NCI Design Workshop - Pro - Standard Doc	Pro	Standard Documentation
NCI Pro	NT-W-DS-PRO-SD	NCI Design Workshop - Pro - Enhanced Doc	Pro	Enhanced Documentation
NCI Ultimate	NT-W-DS-ULT-ED	NCI Design Workshop - Ultimate - Enhanced Doc	Ultimate	Enhanced Documentation
NCI Ultimate	NT-W-DS-ULT-SD	NCI Design Workshop - Ultimate - Standard Doc	Ultimate	Standard Documentation

Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(2) NCI Cluster Deployment or Expansion:

The Nutanix Cloud Infrastructure (NCI) Cluster Deployment or Expansion accelerates the deployment of hybrid cloud infrastructure to support any application and workload. Highly skilled consultants can deploy on-premises NCI clusters or dedicated Nutanix Unified Storage (NUS) clusters. The clusters can be deployed to various supported hardware platforms, regardless of whether it's Nutanix, our OEM partners, or other platform providers. This offer is ideal for the Deploy stage of the Hybrid Multicloud journey.



- For more information on NCI Cluster deployment and expansion workshop, please visit
 - https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/sd-nci-cluster-deployment-or-expansion.pdf
- For more information on Cisco version of Nutanix Professional services, please visit
 - https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/professional-services-service-descriptions-cisco.pdf

Table 39.1 NCI Cluster Deployment or Expansion

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCI Starter	NT-S-DP-STR-AVB	NCI Cluster Deployment or Expansion - Starter - AHV - Base	Starter	AHV Nodes
NCI Starter	NT-S-DP-STR-AVV	NCI Cluster Deployment or Expansion - Starter - AHV - Var	Starter	AHV Nodes
NCI Starter	NT-S-DP-STR-EXB	NCI Cluster Deployment or Expansion - Starter - ESX - Base	Starter	ESX Nodes
NCI Starter	NT-S-DP-STR-EXV	NCI Cluster Deployment or Expansion - Starter - ESX - Var	Starter	ESX Nodes
NCI Pro	NT-S-DP-PRO-AV-SB	NCI Cluster Deployment or Expansion - Starter - AHV - Base	Starter	AHV Nodes
NCI Pro	NT-S-DP-PRO-AV-SV	NCI Cluster Deployment or Expansion - Starter - AHV - Var	Starter	AHV Nodes
NCI Pro	NT-S-DP-PRO-EX-SV	NCI Cluster Deployment or Expansion - Starter - ESX - Var	Starter	ESX Nodes
NCI Pro	NT-S-DP-PRO-EX-SB	NCI Cluster Deployment or Expansion - Starter - ESX - Base	Starter	ESX Nodes
NCI Pro	NT-S-DP-PRO-AV-PB	NCI Cluster Deployment or Expansion - Pro - AHV - Base	Pro	AHV Nodes
NCI Pro	NT-S-DP-PRO-AV-PV	NCI Cluster Deployment or Expansion - Pro - AHV - Var	Pro	AHV Nodes
NCI Pro	NT-S-DP-PRO-EX-PB	NCI Cluster Deployment or Expansion - Pro - ESX - Base	Pro	ESX Nodes
NCI Pro	NT-S-DP-PRO-EX-PV	NCI Cluster Deployment or Expansion - Pro - ESX - Var	Pro	ESX Nodes

Table 39.1 NCI Cluster Deployment or Expansion

NCI Ultimate	NT-S-DP-ULT-AV-SB	NCI Cluster Deployment or Expansion - Starter - AHV - Base	Starter	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-AV-SV	NCI Cluster Deployment or Expansion - Starter - AHV - Var	Starter	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-EX-SB	NCI Cluster Deployment or Expansion - Starter - ESX - Base	Starter	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-EX-SV	NCI Cluster Deployment or Expansion - Starter - ESX - Var	Starter	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-AV-PB	NCI Cluster Deployment or Expansion - Pro - AHV - Base	Pro	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-AV-PV	NCI Cluster Deployment or Expansion - Pro - AHV - Var	Pro	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-EX-PB	NCI Cluster Deployment or Expansion - Pro - ESX - Base	Pro	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-EX-PV	NCI Cluster Deployment or Expansion - Pro - ESX - Var	Pro	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-AV-UB	NCI Cluster Deployment or Expansion- Ultimate - AHV - Base	Ultimate	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-AV-UV	NCI Cluster Deployment or Expansion- Ultimate - AHV - Var	Ultimate	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-EX-UB	NCI Cluster Deployment or Expansion- Ultimate - ESX - Base	Ultimate	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-EX-UV	NCI Cluster Deployment or Expansion- Ultimate - ESX - Var	Ultimate	ESX Nodes

Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(3) Virtual Machine Migration Workshop:

The Virtual Machine Migration Workshop offers IT teams in-depth and practical guidance to create a comprehensive virtual machine migration plan for migrating virtual machines to Nutanix Cloud Infrastructure (NCI). This offer is ideal for the Migrate state of a Hybrid Multicloud journey.



NOTE:

- For more information on Virtual Machine Migration Workshop, please visit https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/sd-virtual-machine-migration-workshop.pdf
- For more information on Cisco version of Nutanix Professional services, please visit -

https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/professional-services-service-descriptions-cisco.pdf

Table 39.2 Virtual Machine Migration Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCI Starter	NT-W-MG-STR-SD	Virtual Machine Migration Workshop - Standard Doc	None	Standard Documentation
NCI Starter	NT-W-MG-STR-ED	Virtual Machine Migration Workshop - Enhanced Doc	None	Enhanced Documentation
NCI Pro	NT-W-MG-PRO-SD	Virtual Machine Migration Workshop - Standard Doc	None	Standard Documentation
NCI Pro	NT-W-MG-PRO-ED	Virtual Machine Migration Workshop - Enhanced Doc	None	Enhanced Documentation
NCI Ultimate	NT-W-MG-ULT-SD	Virtual Machine Migration Workshop - Standard Doc	None	Standard Documentation
NCI Ultimate	NT-W-MG-ULT-ED	Virtual Machine Migration Workshop - Enhanced Doc	None	Enhanced Documentation

Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(4) Virtual Machine Migration:

Virtual machine (VM) Migration offers IT teams strong domain expertise to migrate virtual machines to Nutanix Cloud Infrastructure (NCI) per the customer-provided migration plan. This offer is ideal for the Migrate stage of a Hybrid Multicloud journey



NOTE:

- For more information on Virtual Machine Migration, please visit https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/sd-virtual-machine-migration.pdf
- For more information on Cisco version of Nutanix Professional services, please visit -

https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/professional-services-service-descriptions-cisco.pdf

Table 39.3 Virtual Machine Migration

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCI Starter	NT-S-MG-VM-STR-AVB	Virtual Machine Migration - From AHV - Base	None	From AHV
NCI Starter	NT-S-MG-VM-STR-AVV	Virtual Machine Migration - From AHV - Var	None	From AHV
NCI Starter	NT-S-MG-VM-STR-EXB	Virtual Machine Migration - From ESX - Base	None	From ESX
NCI Starter	NT-S-MG-VM-STR-EXV	Virtual Machine Migration - From ESX - Var	None	From ESX
NCI Pro	NT-S-MG-VM-PRO-AVB	Virtual Machine Migration - From AHV - Base	None	From AHV
NCI Pro	NT-S-MG-VM-PRO-AVV	Virtual Machine Migration - From AHV - Var	None	From AHV
NCI Pro	NT-S-MG-VM-PRO-EXB	Virtual Machine Migration - From ESX - Base	None	From ESX
NCI Pro	NT-S-MG-VM-PRO-EXV	Virtual Machine Migration - From ESX - Var	None	From ESX
NCI Ultimate	NT-S-MG-VM-ULT-AVB	Virtual Machine Migration - From AHV - Base	None	From AHV
NCI Ultimate	NT-S-MG-VM-ULT-AVV	Virtual Machine Migration - From AHV - Var	None	From AHV
NCI Ultimate	NT-S-MG-VM-ULT-EXB	Virtual Machine Migration - From ESX - Base	None	From ESX
NCI Ultimate	NT-S-MG-VM-ULT-EXV	Virtual Machine Migration - From ESX - Var	None	From ESX

Table 9.0, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping Table 9.1, Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(5) NCM Self-Service Design Workshop:

The Nutanix Cloud Management (NCM) Self-Service Design Workshop offers automation teams in-depth and practical guidance to create a comprehensive design for application-centric infrastructure automation and lifecycle management (LCM) platforms to streamline and accelerate application development. This workshop is beneficial during the Design stage of a Hybrid Multicloud journey.



NOTE:

- For more information on Nutanix Cloud Management (NCM) Self-Service Design Workshop, please visithttps://www.nutanix.com/content/dam/nutanix/resources/datasheets/professional-services-service-descriptions.pdf
- For more information on Cisco version of Nutanix Professional services, please visit -

https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 39.4 NCM Self-Service Design Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	. (Nutanix PS Option
NCM Pro	NT-W-SSD-PRO-SD-S	NCM Self-Service Design Workshop - Starter - Standard Doc	Starter	Standard Documentation
NCM Pro	NT-W-SSD-PRO-ED-S	NCM Self-Service Design Workshop - Starter - Enhanced Doc	Starter	Enhanced Documentation
NCM Pro	NT-W-SSD-PRO-SD-P	NCM Self-Service Design Workshop - Pro - Standard Doc	Pro	Standard Documentation
NCM Pro	NT-W-SSD-PRO-ED-P	NCM Self-Service Design Workshop - Pro - Enhanced Doc	Pro	Enhanced Documentation
NCM Ultimate	NT-W-SSD-ULT-SD-S	NCM Self-Service Design Workshop - Starter - Standard Doc	Starter	Standard Documentation
NCM Ultimate	NT-W-SSD-ULT-ED-S	NCM Self-Service Design Workshop - Starter - Enhanced Doc	Starter	Enhanced Documentation
NCM Ultimate	NT-W-SSD-ULT-SD-P	NCM Self-Service Design Workshop - Pro - Standard Doc	Pro	Standard Documentation
NCM Ultimate	NT-W-SSD-ULT-ED-P	NCM Self-Service Design Workshop - Pro - Enhanced Doc	Pro	Enhanced Documentation

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

(6) NCM Intelligent Operations Design:

The Nutanix Cloud Management (NCM) Intelligent Operations Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for Nutanix X-Play automation and playbooks to automate common tasks.



NOTE:

- For more information on NCM Intelligent Operations Design Workshop, please visit
 - https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/sd-ncm-intelligent-operations-design.pdf
- For more information on Cisco version of Nutanix Professional services, please visit
 - https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/professional-services-service-descriptions-cisco.pdf

Table 39.5 NCM Intelligent Operations Design Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	. (Nutanix PS Option
NCM Starter	NT-W-OD-STR-SD	NCM Intelligent Operations Design Workshop - Standard Doc	None	Standard Documentation
NCM Starter	NT-W-OD-STR-ED	NCM Intelligent Operations Design Workshop - Enhanced Doc	None	Enhanced Documentation
NCM Pro	NT-W-OD-PRO-SD	NCM Intelligent Operations Design Workshop - Standard Doc	None	Standard Documentation
NCM Pro	NT-W-OD-PRO-ED	NCM Intelligent Operations Design Workshop - Enhanced Doc	None	Enhanced Documentation
NCM Ultimate	NT-W-OD-ULT-SD	NCM Intelligent Operations Design Workshop - Standard Doc	None	Standard Documentation
NCM Ultimate	NT-W-OD-ULT-ED	NCM Intelligent Operations Design Workshop - Enhanced Doc	None	Enhanced Documentation

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

(7) NCM Intelligent Operations Deployment:

The Nutanix Cloud Management (NCM) Intelligent Operations Deployment accelerates the deployment of Nutanix X-Play automation and playbooks to automate common tasks with in-depth expertise from highly skilled consultants.



NOTE:

- For more information on NCM Intelligent Operations Deployment Workshop, please visit
 - https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/sd-ncm-intelligent-operations-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit
 - https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/professional-services-service-descriptions-cisco.pdf

Table 39.6 NCM Intelligent Operations Deployment

Nutanix Software Product/Edition	Cisco Product PID	DS Offer Name - DS Offer Edition - DS	Nutanix PS Edition	Nutanix PS Option
NCM Starter	NT-S-OP-STR	NCM Intelligent Operations Deployment	None	None
NCM Pro	NT-S-OP-PRO	NCM Intelligent Operations Deployment	None	None
NCM Ultimate	NT-S-OP-ULT	NCM Intelligent Operations Deployment	None	None

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

(8) FastTrack for NCM Self-Service:

FastTrack for Nutanix Cloud Manager (NCM) Self-Service accelerates the deployment and configuration of NCM Self-Service, which streamlines how teams manage, deploy, and scale applications across hybrid clouds with self-service, automation, and centralized role-based governance, with expertise from highly skilled automation consultants.



NOTE:

- For more information on Fast Track for NCM Self-Service, please visit https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/sd-ncm-intelligent-operations-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit -

https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 39.7 FastTrack for NCM Self-Service

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCM Pro	NT-F-PRO-SS	FastTrack for NCM Self-Service	None	None
NCM Ultimate	NT-F-ULT-SS	FastTrack for NCM Self-Service	None	None

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

(9) FastTrack for NCM Cost Governance:

The FastTrack for Nutanix Cloud Management (NCM) Cost Governance accelerates the onboarding of deep visibility and rich analytics detailing cloud consumption patterns along with one-click cost optimization across cloud environments with expertise from highly skilled consultants. IT teams can choose to onboard on-premises Nutanix Cloud Infrastructure (NCI) clusters or a public cloud platform.



NOTE:

- For more information on Fast Track for NCM Cost Governance, please visit https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/sd-ncm-intelligent-operations-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit -

https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/professional-services-service-descriptions-cisco.pdf

Table 39.8 FastTrack for NCM Cost Governance

Nutanix Software Product/Edition	Cisco Product PID	DC Ottor Name - DC Ottor Edition -	Nutanix PS Edition	Nutanix PS Option
NCM Pro	NT-F-PRO-CG	FastTrack for NCM Cost Governance	None	None
NCM Ultimate	NT-F-ULT-CG	FastTrack for NCM Cost Governance	None	None

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

(10) Nutanix Services Flexible Credits:

Nutanix Flex Credits provide a credits program for purchasing Nutanix Professional Services. This program provides the flexibility to utilize your budget cycles to pre-buy credits for future use of Nutanix Professional Services and training via redemption of credits. Within the terms of validity of your Flex Credits, use the credits for the portfolio of Nutanix Professional Services including Consulting, Resident, Technical Account Manager, and Education.



NOTE:

- For more information on Nutanix Services Flexible Credits, please visit https://www.nutanix.com/content/dam/nutanix/resources/service-descript ions/sd-ncm-intelligent-operations-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit -

https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 39.9 Nutanix Flexible Credits

Nutanix Software Product/Edition	Cisco Product PID		Nutanix PS Edition	Nutanix PS Option
All	NT-FLEX-CST-CR	Nutanix Services Flexible Credits	None	None

Table 10.0, Nutanix Software NCM STR 1 YEAR SUBSCRIPTION with professional services PID Mapping Table 10.1, Nutanix Software NCM STR 3 YEAR AND ABOVE SUBSCRIPTION with Professional Services PID Mapping

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

Nutanix Support:

Table 40 Nutanix Support

Product ID (PID)	PID Description
Nutanix Support	
SVS-NT-SUP	Entitlement ONLY for Nutanix Cloud Infrastructure SW

Software With Professional Services PID Mapping



NOTE: Recommended to select the matching/higher level of service options for the subscribed software. For example: If ULT (Ultimate) software is selected, recommended to choose the ULT services from the below columns. However, it is allowed to select the lower version of the services.

Table 41.0 Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

	Mandat	ory Professional Services PIDs
Software PIDs	NCI Design Workshop (select one service)	NCI Cluster Deployment or Expansion (select a Pair of service)
STR:	STR:	STR:
NCI	NT-W-DS-STR	NT-S-DP-STR-AVB and NT-S-DP-STR-AVV or
NT-NCI-STR-PR	NT-W-DS-STR-SD	NT-S-DP-STR-EXB and N T-S-DP-STR-EXV
NT-NCI-STR-MC	NT-W-DS-STR-ED	
NT-NCI-STR-AP		PRO:
NT-NCI-STR-AM	PRO:	NT-S-DP-PRO-AV-SB and NT-S-DP-PRO-AV-SV or
NT-NCI-STR-FP	NT-W-DS-PRO	NT-S-DP-PRO-EX-SB and NT-S-DP-PRO-EX-SV or
NT-NCI-STR-FM	NT-W-DS-PRO-SD	NT-S-DP-PRO-AV-PB and NT-S-DP-PRO-AV-PV or
1	NT-W-DS-PRO-ED	NT-S-DP-PRO-EX-PB and NT-S-DP-PRO-EX-PV
NCI-D		
NT-NCI-D-STR-PR	ULT:	ULT:
NT-NCI-D-STR-MC	NT-W-DS-ULT-SD	NT-S-DP-ULT-AV-SB and NT-S-DP-ULT-AV-SV or
NT-NCI-D-STR-AP	NT-W-DS-ULT-ED	NT-S-DP-ULT-EX-SB and NT-S-DP-ULT-EX-SV or
NT-NCI-D-STR-AM		NT-S-DP-ULT-AV-PB and NT-S-DP-ULT-AV-PV or
NT-NCI-D-STR-FP		NT-S-DP-ULT-EX-PB and NT-S-DP-ULT-EX-PV or
NT-NCI-D-STR-FM		NT-S-DP-ULT-AV-UB and NT-S-DP-ULT-AV-UV or
		NT-S-DP-ULT-EX-UB and NT-S-DP-ULT-EX-UV
EUC		
NT-EUC-STR-PR		
NT-EUC-STR-MC		
NT-EUC-STR-AP		
NT-EUC-STR-AM		
NT-EUC-STR-FP		
NT-EUC-STR-FM		
NKP (FS-STR)		
NT-NKP-FS-STR-PR		
NT-NKP-FS-STR-MC		
NT-NKP-FS-STR-AP		
NT-NKP-FS-STR-AM		
NT-NKP-FS-STR-FP		
NT-NKP-FS-STR-FM		

Table 41.0 Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

•	11 3	
PRO:	1	
NCI		
NT-NCI-PRO-PR		
NT-NCI-PRO-MC		
NT-NCI-PRO-AP		
NT-NCI-PRO-AM		
NT-NCI-PRO-FP		
NT-NCI-PRO-FM		
NCI-D		
NT-NCI-D-PRO-PR		
NT-NCI-D-PRO-MC		
NT-NCI-D-PRO-AP		
NT-NCI-D-PRO-AM		
NT-NCI-D-PRO-FP		
NT-NCI-D-PRO-FM		
		1
EUC		
NT-EUC-PRO-PR		
NT-EUC-PRO-MC		
NT-EUC-PRO-AP		
NT-EUC-PRO-AM		
NT-EUC-PRO-FP		
NT-EUC-PRO-FM		
NCP (NCI-PRO)		
NT-NCP-NCI-PRO-PR		
NT-NCP-NCI-PRO-MC		
NT-NCP-NCI-PRO-AP		
NT-NCP-NCI-PRO-AM		
NT-NCP-NCI-PRO-FP		
NT-NCP-NCI-PRO-FM		
NKP		
NT-NKP-PRO-PR		
NT-NKP-PRO-MC		
NT-NKP-PRO-AP		
NT-NKP-PRO-AM		
NT-NKP-PRO-FP		
NT-NKP-PRO-FM		
NKP (FS-PRO)		
NT-NKP-FS-PRO-PR		
NT-NKP-FS-PRO-MC		
NT-NKP-FS-PRO-AP		
NT-NKP-FS-PRO-AM		
NT-NKP-FS-PRO-FP		
NT-NKP-FS-PRO-FM		

Table 41.0 Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCP (NCI-PRO), NCP (NCI-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

•	services i ib mapping	
ULT:	!	
NCI		
NT-NCI-ULT-PR		
NT-NCI-ULT-MC		
NT-NCI-ULT-AP		
NT-NCI-ULT-AM		
NT-NCI-ULT-FP		
NT-NCI-ULT-FM		
MI-NCI-OLI-IM		
NCI-D NT-NCI-D-ULT-PR		
NT-NCI-D-ULT-MC		
NT-NCI-D-ULT-AP		
NT-NCI-D-ULT-AM		
NT-NCI-D-ULT-FP		
NT-NCI-D-ULT-FM		
NT-NCI-D-ULT-FM		
EUC		
NT-EUC-ULT-PR		
NT-EUC-ULT-PK		
NT-EUC-ULT-MC		
NT-EUC-ULT-AM		
NT-EUC-ULT-AM		
NT-EUC-ULT-FM		
NCP (NCI-ULT)		
NT-NCP-NCI-ULT-PR		
NT-NCP-NCI-ULT-MC		
NT-NCP-NCI-ULT-AP		
NT-NCP-NCI-ULT-AM		
NT-NCP-NCI-ULT-FP		
NT-NCP-NCI-ULT-FM		
NT-NCP-NCI-ULT-FM		
NKP		
NT-NKP-ULT-PR		
NT-NKP-ULT-MC		
NT-NKP-ULT-AP		
NT-NKP-ULT-AM		
NT-NKP-ULT-FP		
NT-NKP-ULT-FM		
IVI IVII OLI IM		
NKP (FS-ULT)		
NT-NKP-FS-ULT-PR		
NT-NKP-FS-ULT-MC		
NT-NKP-FS-ULT-AP		
NT-NKP-FS-ULT-AM		
NT-NKP-FS-ULT-FP		
NT-NKP-FS-ULT-FM		
141-14KI -1 3-UL1-1 M	<u>l</u>	



NOTE: Recommended to select the matching/higher level of service options for the subscribed software. For example: If ULT (Ultimate) software is selected, recommended to choose the ULT services from the below columns. However, it is allowed to select the lower version of the services.

Table 41.1 Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

	Mandat	tory Professional Services PIDs
Software PIDs	NCI Design Workshop (select one service)	NCI Cluster Deployment or Expansion (select a Pair of service)
STR:	STR:	STR:
NCI	NT-W-DS-STR	NT-S-DP-STR-AVB and NT-S-DP-STR-AVV or
NT-NCI-STR-PR	NT-W-DS-STR-SD	NT-S-DP-STR-EXB and N T-S-DP-STR-EXV
NT-NCI-STR-MC	NT-W-DS-STR-ED	
NT-NCI-STR-AP		PRO:
NT-NCI-STR-AM	PRO:	NT-S-DP-PRO-AV-SB and NT-S-DP-PRO-AV-SV or
NT-NCI-STR-FP	NT-W-DS-PRO	NT-S-DP-PRO-EX-SB and NT-S-DP-PRO-EX-SV or
NT-NCI-STR-FM	NT-W-DS-PRO-SD	NT-S-DP-PRO-AV-PB and NT-S-DP-PRO-AV-PV or
	NT-W-DS-PRO-ED	NT-S-DP-PRO-EX-PB and NT-S-DP-PRO-EX-PV
NCI-D		
NT-NCI-D-STR-PR	ULT:	ULT:
NT-NCI-D-STR-MC	NT-W-DS-ULT-SD	NT-S-DP-ULT-AV-SB and NT-S-DP-ULT-AV-SV or
NT-NCI-D-STR-AP	NT-W-DS-ULT-ED	NT-S-DP-ULT-EX-SB and NT-S-DP-ULT-EX-SV or
NT-NCI-D-STR-AM		NT-S-DP-ULT-AV-PB and NT-S-DP-ULT-AV-PV or
NT-NCI-D-STR-FP		NT-S-DP-ULT-EX-PB and NT-S-DP-ULT-EX-PV or
NT-NCI-D-STR-FM		NT-S-DP-ULT-AV-UB and NT-S-DP-ULT-AV-UV or
		NT-S-DP-ULT-EX-UB and NT-S-DP-ULT-EX-UV
EUC		
NT-EUC-STR-PR		
NT-EUC-STR-MC		
NT-EUC-STR-AP		
NT-EUC-STR-AM		
NT-EUC-STR-FP		
NT-EUC-STR-FM		
NKP (FS-STR)		
NT-NKP-FS-STR-PR		
NT-NKP-FS-STR-MC		
NT-NKP-FS-STR-AP		
NT-NKP-FS-STR-AM		
NT-NKP-FS-STR-FP		
NT-NKP-FS-STR-FM		

Table 41.1 Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

	in professional services r ib mapping	
PRO:		
NCI		
NT-NCI-PRO-PR		
NT-NCI-PRO-MC		
NT-NCI-PRO-AP		
NT-NCI-PRO-AM		
NT-NCI-PRO-FP		
NT-NCI-PRO-FM		
NCI-D		
NT-NCI-D-PRO-PR		
NT-NCI-D-PRO-MC		
NT-NCI-D-PRO-AP		
NT-NCI-D-PRO-AM		
NT-NCI-D-PRO-FP		
NT-NCI-D-PRO-FM		
EUC		
NT-EUC-PRO-PR		
NT-EUC-PRO-MC		
NT-EUC-PRO-AP		
NT-EUC-PRO-AM		
NT-EUC-PRO-FP		
NT-EUC-PRO-FM		
NCP (NCI-PRO)		
NT-NCP-NCI-PRO-PR		
NT-NCP-NCI-PRO-MC		
NT-NCP-NCI-PRO-AP		
NT-NCP-NCI-PRO-AM		
NT-NCP-NCI-PRO-FP		
NT-NCP-NCI-PRO-FM		
NKP		
NT-NKP-PRO-PR		
NT-NKP-PRO-MC		
NT-NKP-PRO-AP		
NT-NKP-PRO-AM		
NT-NKP-PRO-FP		
NT-NKP-PRO-FM		
NKP (FS-PRO)		
NT-NKP-FS-PRO-PR		
NT-NKP-FS-PRO-MC		
NT-NKP-FS-PRO-AP		
NT-NKP-FS-PRO-AM		
NT-NKP-FS-PRO-FP		
NT-NKP-FS-PRO-FM		

Table 41.1 Nutanix Software NCI, NKP, NCI-D, NCI-Edge, EUC, NCM-U, NCP (NCI-PRO), NCP (NCI-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

ULT:		
NCI		
NT-NCI-ULT-PR		
NT-NCI-ULT-MC		
NT-NCI-ULT-AP		
NT-NCI-ULT-AM		
NT-NCI-ULT-FP		
NT-NCI-ULT-FM		
NI NEI OEI IM		
NGI B VIT VIGI B LII T BB		
NCI-D NT-NCI-D-ULT-PR		
NT-NCI-D-ULT-MC		
NT-NCI-D-ULT-AP		
NT-NCI-D-ULT-AM		
NT-NCI-D-ULT-FP		
NT-NCI-D-ULT-FM		
EUC		
EUC III T DD		
NT-EUC-ULT-PR		
NT-EUC-ULT-MC		
NT-EUC-ULT-AP		
NT-EUC-ULT-AM		
NT-EUC-ULT-FP		
NT-EUC-ULT-FM		
200 02. T.M.		
NCP (NCI-ULT)		
1		
NT-NCP-NCI-ULT-PR		
NT-NCP-NCI-ULT-MC		
NT-NCP-NCI-ULT-AP		
NT-NCP-NCI-ULT-AM		
NT-NCP-NCI-ULT-FP		
NT-NCP-NCI-ULT-FM		
NKP		
NT-NKP-ULT-PR		
NT-NKP-ULT-MC		
NT-NKP-ULT-AP		
NT-NKP-ULT-AM		
NT-NKP-ULT-FP		
NT-NKP-ULT-FM		
NKP (FS-ULT)		
NT-NKP-FS-ULT-PR		
NT-NKP-FS-ULT-MC		
NT-NKP-FS-ULT-AP		
NT-NKP-FS-ULT-AM		
NT-NKP-FS-ULT-FP		
NT-NKP-FS-ULT-FM		
L	1	



NOTE: Recommended to select the matching/higher level of service options for the subscribed software. For example: If ULT (Ultimate) software is selected, recommended to choose the ULT services from the below columns. However, it is allowed to select the lower version of the services.

Table 42.0 Nutanix Software NCM STR with professional services PID Mapping

	Mandatory Professional Services PIDs		
Software PIDs	NCM Intelligent Operations Design (select one service)	NCM Intelligent Operations Deployment (select one service)	
STR: NCM NT-NCM-STR-PR NT-NCM-STR-AP NT-NCM-STR-AM NT-NCM-STR-FP NT-NCM-STR-FM NCM-U NT-NCM-U-STR-PR NT-NCM-U-STR-MC NT-NCM-U-STR-AP NT-NCM-U-STR-AP NT-NCM-U-STR-AP NT-NCM-U-STR-AM NT-NCM-U-STR-AM	STR: NT-W-OD-STR-SD NT-W-OD-STR-ED PRO: NT-W-OD-PRO-SD NT-W-OD-PRO-ED ULT: NT-W-OD-ULT-SD NT-W-OD-ULT-ED	STR: NT-S-OP-STR PRO: NT-S-OP-PRO ULT: NT-S-OP-ULT	



NOTE: Recommended to select the matching/higher level of service options for the subscribed software. For example: If ULT (Ultimate) software is selected, recommended to choose the ULT services from the below columns. However, it is allowed to select the lower version of the services.

Table 42.1 Nutanix Software NCM STR

with Professional Services PID Mapping

	Recommended Professional Services PIDs		
Software PIDs	NCM Intelligent Operations Design (select one service)		NCM Intelligent Operations Deployment (select one service)
STR: NCM NT-NCM-STR-PR NT-NCM-STR-MC NT-NCM-STR-AP NT-NCM-STR-AM NT-NCM-STR-FP NT-NCM-STR-FM NCM-U NT-NCM-U-STR-PR NT-NCM-U-STR-MC NT-NCM-U-STR-AP NT-NCM-U-STR-AP NT-NCM-U-STR-AP NT-NCM-U-STR-AM NT-NCM-U-STR-FP NT-NCM-U-STR-FP	STR: NT-W-OD-STR-SD NT-W-OD-STR-ED PRO: NT-W-OD-PRO-ED ULT: NT-W-OD-ULT-SD NT-W-OD-ULT-ED	NT-W-OD-PRO-SD	STR: NT-S-OP-STR PRO: NT-S-OP-PRO ULT: NT-S-OP-ULT



NOTE: Recommended to select the matching/higher level of service options for the subscribed software. For example: If ULT (Ultimate) software is selected, recommended to choose the ULT services from the below columns. However, it is allowed to select the lower version of the services.

Table 43 Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

	Mandatory Professional Services PIDs					
	NCM Self-Service	NCM Intelligent	NCM Intelligent	FastTrack for NCM	FastTrack for NCM	
Software PIDs	Design Workshop	Operations Design	Operations	Self-Service	Cost Governance	
	(select one service)	(select one service)	Deployment (select one service)	(select one service)	(select one service)	
DDO:	DDO:	CTD:		DDO:	DDO:	
PRO:	PRO:	STR:	STR:	PRO:	PRO:	
NCH	NT-W-SSD-PRO-SD-S	NT-W-OD-STR-SD	NT-S-OP-STR	NT-F-PRO-SS	NT-F-PRO-CG	
NCM	NT-W-SSD-PRO-ED-S	NT-W-OD-STR-ED	220			
NT-NCM-PRO-PR	NT-W-SSD-PRO-SD-P	220	PRO:	ULT:	ULT:	
NT-NCM-PRO-MC	NT-W-SSD-PRO-ED-P	PRO:	NT-S-OP-PRO	NT-F-ULT-SS	NT-F-ULT-CG	
NT-NCM-PRO-AP		NT-W-OD-PRO-SD				
NT-NCM-PRO-AM	ULT:	NT-W-OD-PRO-ED	ULT:			
NT-NCM-PRO-FP	NT-W-SSD-ULT-SD-S		NT-S-OP-ULT			
NT-NCM-PRO-FM	NT-W-SSD-ULT-ED-S	ULT:				
	NT-W-SSD-ULT-SD-P	NT-W-OD-ULT-SD				
NCM-U	NT-W-SSD-ULT-ED-P	NT-W-OD-ULT-ED				
NT-NCM-U-PRO-PR						
NT-NCM-U-PRO-MC						
NT-NCM-U-PRO-AP						
NT-NCM-U-PRO-AM						
NT-NCM-U-PRO-FP						
NT-NCM-U-PRO-FM						
NCP (NCM-PRO)						
NT-NCP-NCM-PRO-PR						
NT-NCP-NCM-PRO-MC						
NT-NCP-NCM-PRO-AP						
NT-NCP-NCM-PRO-AM						
NT-NCP-NCM-PRO-FP						
NT-NCP-NCM-PRO-FM						
ULT:						
NCM						
NT-NCM-ULT-PR						
NT-NCM-ULT-MC						
NT-NCM-ULT-AP						
NT-NCM-ULT-AM						
NT-NCM-ULT-FP						
NT-NCM-ULT-FM						

Table 43 Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP ((NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE
SUBSCRIPTION with Professional services	

NCM-U			
NT-NCM-U-ULT-PR			
NT-NCM-U-ULT-MC			
NT-NCM-U-ULT-AP			
NT-NCM-U-ULT-AM			
NT-NCM-U-ULT-FP			
NT-NCM-U-ULT-FM			
NCP (NCM-ULT)			
NT-NCP-NCM-ULT-PR			
NT-NCP-NCM-ULT-MC			
NT-NCP-NCM-ULT-AP			
NT-NCP-NCM-ULT-AM			
NT-NCP-NCM-ULT-FP			
NT-NCP-NCM-ULT-FM			

STEP 17 CISCO INTERSIGHT

Cisco Intersight $^{\mathbb{M}}$ is a Software-as-a-Service (SaaS) hybrid cloud operations platform which delivers intelligent automation, observability, and optimization to customers for traditional and cloud-native applications and infrastructure.

Product ID (PID)	
DC-MGT-SAAS	Cisco Intersight SaaS

Select Cisco Intersight subscription option as desired from Table 44

Table 44 Cisco Intersight

Product ID (PID)	PID Description			
Cisco Intersight 2.0 Infrastructure Services				
DC-MGT-IS-SAAS-ES ¹	Infrastructure Services SaaS/CVA - Essentials			
DC-MGT-IS-SAAS-AD ¹	Infrastructure Services SaaS/CVA - Advantage			
DC-MGT-IS-PVAPP-ES ¹	Infrastructure Services PVA - Essentials			
DC-MGT-IS-PVAPP-AD ¹	Infrastructure Services PVA - Advantage			
Add-Ons				
DC-MGT-IS-UCSD UCS Director - 1 Server License (includes Network, Storage)				
Cisco Intersight Workload C	ptimizer (IWO) - SaaS			
VM Instance				
DC-MGT-WO-SAAS-ES ¹	Cisco Intersight Workload Optimizer SaaS - Essentials			
DC-MGT-WO-SAAS-AD ¹	Cisco Intersight Workload Optimizer SaaS - Advantage			
DC-MGT-WO-SAAS-PR1	Cisco Intersight Workload Optimizer SaaS - Premier			
VDI Instance				
DC-MGT-WOD-SAAS-ES ¹	Cisco Intersight Workload Optimizer SaaS VDI - Essentials			
DC-MGT-WOD-SAAS-AD ¹	Cisco Intersight Workload Optimizer SaaS VDI - Advantage			
DC-MGT-WOD-SAAS-PR ¹	Cisco Intersight Workload Optimizer SaaS VDI - Premier			

Notes:

1. Smart account (SA) required

Select Cisco Intersight support option as desired from Table 45

Table 45 Cisco Intersight Support

Product ID (PID)	PID Description
Cisco Intersight Support	
SVS-SSTCS-DCMGMT ¹	Solution Support for DC Mgmnt
SVS-L1DCS-INTER ¹	CXL1 for INTERSIGHT
SVS-L2DCS-INTER ¹	CXL2 for INTERSIGHT
SVS-DCM-SUPT-BAS	Basic Support for DCM

Notes:

1. Smart account (SA) required



NOTE: An Intersight license is required for every server.

SUPPLEMENTAL MATERIAL

Retrofit of Existing UCS Servers

Existing UCS servers that match the base HCI platform (C220 M7 All-Flash/C240 M7 All NVMe/ C240 M7 All-Flash) can be retrofitted to support Nutanix software. UCS servers contain a software feature known as a software defined personality, enabling easy and automatic conversion between a base UCS platform and an HCI appliance supported under the Nutanix OEM program.

To prepare a server for retrofitting, confirm all installed components match all required sections of this document (e.g CPU, Memory, Drive Controller, Drives, Network Adapters, etc.). Special care should be taken to ensure compatible boot media, storage controllers, drives, and networking adapters are selected in line with this document.

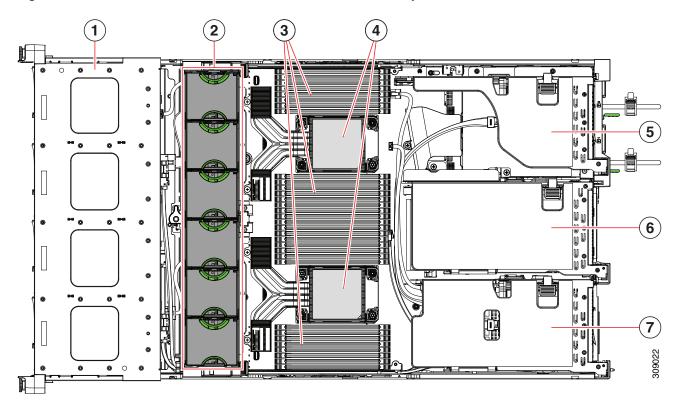
For the C240 M7 All-Flash specifically, riser 1B and 3B can be physically installed as long as the drive bays remain unpopulated. Only the 24 front facing drive slots can be populated with SSDs.

Once the server hardware is confirmed to be compatible with this spec sheet, be sure to purchase the appropriate Nutanix software licenses, Intersight licenses, and professional services, as required.

Chassis

An internal view of the HCIAF240C M7 All-NVMe/All-Flash Servers chassis with the top cover removed is shown in *Figure 7*.

Figure 7 HCIAF240C M7 All-NVMe/All-Flash Servers With Top Cover Off



1	Front-loading drive bays.	2	Cooling fan modules (six, hot-swappable)
3	DIMM socket on motherboard (16 per CPU) An air baffle rests on top of the DIMMs and CPUs when the server is operating. The air baffle is not displayed in this illustration.	4	CPU sockets CPU 2 is at the top and CPU 1 is at the bottom.

5	PCIe riser 3 (PCIe slots 7 and 8 numbered from bottom to top), with the following options: 3A: Slot 7 (x24 mechanical, x8 electrical) supports full height, full length GPU card Slot 8 (x24 mechanical, x8 electrical) supports full height, full length GPU card 3C (GPU Option): Slot 7 (x24 mechanical, x16 electrical) support a full height, full length, double-wide GPU card Slot 8 empty (No NCSI support)	6	PCIe riser 2 (PCIe slots 4, 5, 6 numbered from bottom to top), with the following options: ■ 2A: Slot 4 (x24 mechanical, x8 electrical) supports full height, ¾ length card; Slot 5 (x24 mechanical, x16 electrical) supports full height, full length GPU card; Slot 6 (x16 mechanical, x8 electrical) supports full height, full length card ■ 2C: Slot 4 (x24 mechanical, x16 electrical) supports full height, ¾ length card; Slot 5 (x16 mechanical, x16 electrical) supports full height, ¼ length card;
7	PCIe riser 1 (PCIe slot 1, 2, 3 numbered bottom to top), with the following options: 1A:	-	
	Slot 1 (x24 mechanical, x8 electrical) supports		
	full height, ¾ length card;		
	Slot 2 (x24 mechanical, x16 electrical) supports full height, full length GPU card;		
	Slot 3 (x24 mechanical, x16 electrical) supports full height, full length card.		
	■ 1C:		
	Slot 1 (x24 mechanical, x16 electrical) supports full height, ¾ length card;		
	Slot 2 (x16 mechanical, x16 electrical) supports full height, full length GPU card.		

Risers

Figure 8 shows the locations of the PCIe riser connectors on Cisco HCIAF240C M7 All-NVMe/All-Flash Servers motherboard.

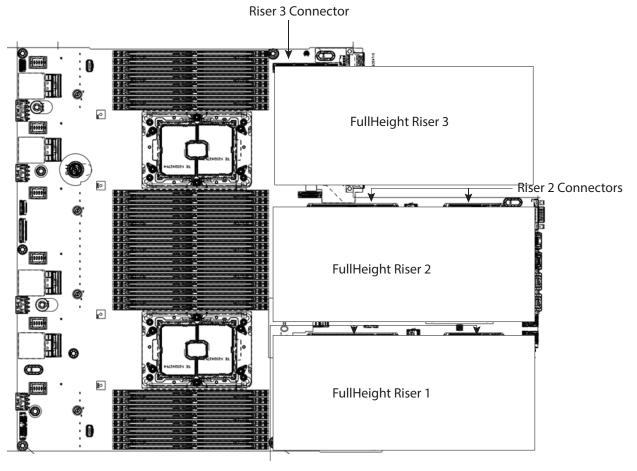
Figure 8 HCIAF240C M7 All-NVMe/All-Flash Servers Riser Connector Locations

Riser 2 Connectors
(Riser 2 controlled from CPU2)

Riser 1 Connectors
(Riser 1 controlled from CPU1)

Figure 9 shows the locations of the PCIe riser connectors on Cisco HCIAF240C M7 All-NVMe/All-Flash Servers motherboard.

Figure 9 HCIAF240C M7 All-NVMe/All-Flash Servers Riser Connector Locations

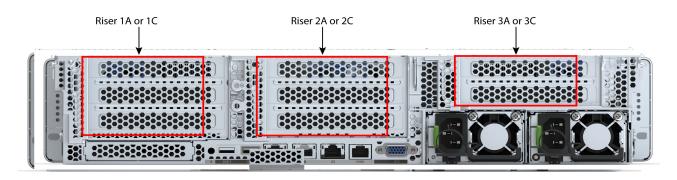


Riser 1 Connectors

Riser Card Configurations and Options

The riser card locations are shown in *Figure 10*.

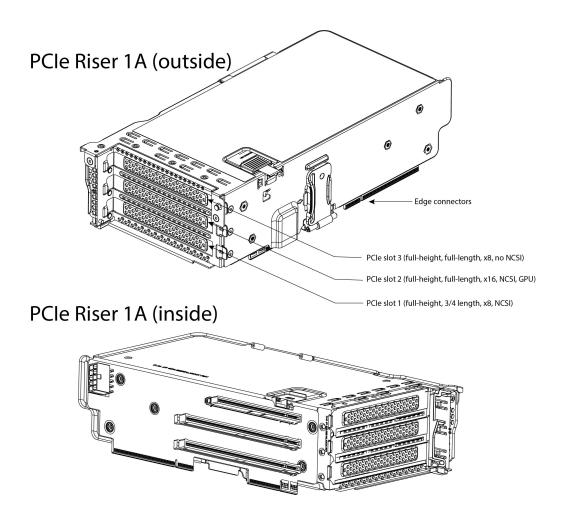
Figure 10 Riser Card Locations



Riser 1A

Riser 1A mechanical information is shown in *Figure 11*.

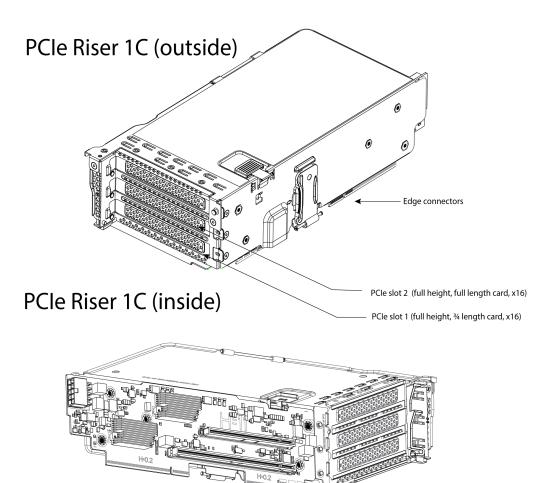
Figure 11 Riser Card 1A



Riser 1C

Riser 1C mechanical information is shown in Figure 12.

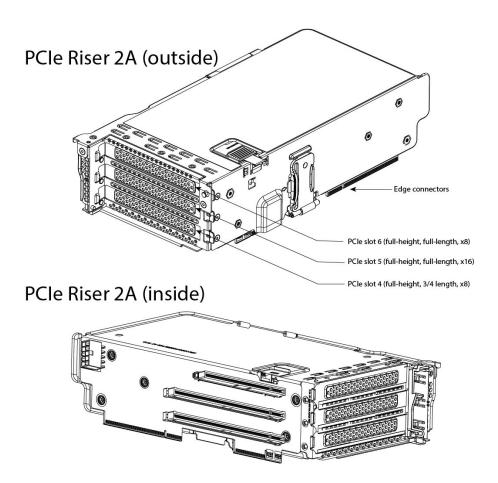
Figure 12 Riser Card 1C



Riser 2A

Riser 2A mechanical information is shown in Figure 13.

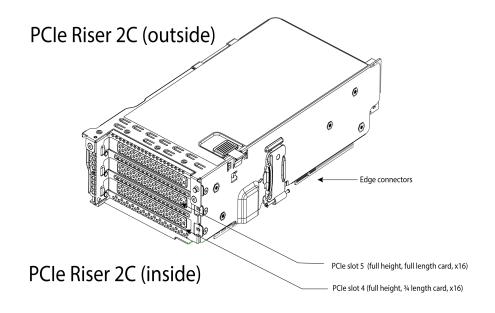
Figure 13 Riser Card 2A

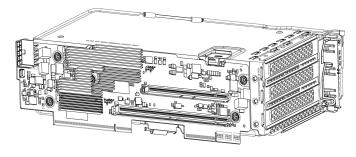


Riser 2C

Riser 2C mechanical information is shown in Figure 14.

Figure 14 Riser Card 2C

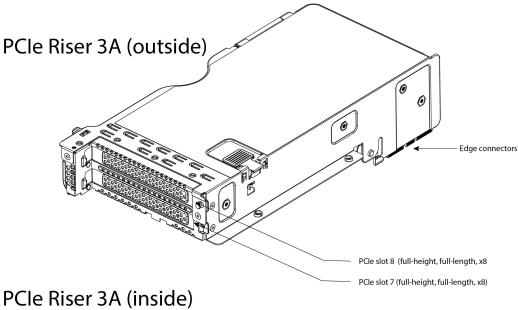


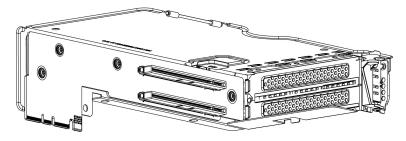


Riser 3A

Riser 3A mechanical information is shown in *Figure 15*.

Figure 15 Riser Card 3A

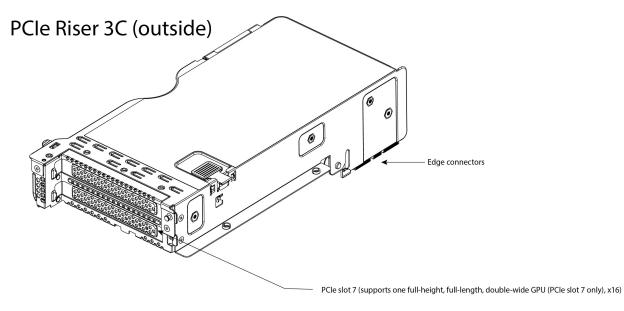




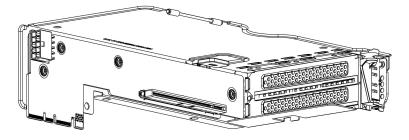
Riser 3C

Riser 3C mechanical information is shown in *Figure 16*.

Figure 16 Riser Card 3C



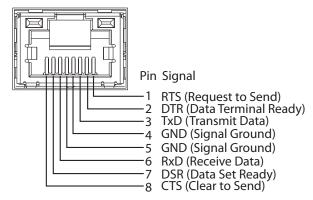
PCle Riser 3C (inside)



Serial Port Details

The pinout details of the rear RJ-45 serial port connector are shown in *Figure 17*.

Figure 17 Serial Port (Female RJ-45 Connector) Pinout Serial Port (RJ-45 Female Connector)



KVM Cable

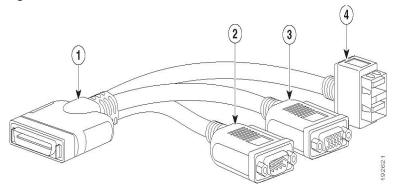
The KVM cable provides a connection into the server, providing a DB9 serial connector, a VGA connector for a monitor, and dual USB 2.0 ports for a keyboard and mouse. With this cable, you can create a direct connection to the operating system and the BIOS running on the server.

The KVM cable ordering information is listed in Table 46.

Table 46 KVM Cable

Product ID (PID)	PID Description
N20-BKVM	KVM cable for server console port

Figure 18 KVM Cable



1	Connector (to server front panel)	3	VGA connector (for a monitor)
2	DB-9 serial connector	4	Two-port USB 2.0 connector (for a mouse and keyboard)

UPGRADING or REPLACING CPUs and Memory

- Refer to Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers Installation and Service Guide to upgrading or replacing the CPUs
- Refer to Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers Installation and Service Guide to upgrading or replacing the Memory

5TH GEN INTEL XEON BENEFIT PILLARS

INTEL® XEON® PROCESSORS

5TH GEN INTEL® XEON® PROCESSORS

INTEL XEON HEADLINE: Trusted performance. Exceptional efficiency.

5TH GEN INTEL XEON VALUE PROPOSITION:

Get impressive performance per watt gains across all your workloads,¹ plus outsized performance and TCO in AI, database, networking, and HPC.² 5th Gen Intel® Xeon® processors deliver more compute and faster memory³ at the same TDP as the previous generation. It's software- and platform-compatible with the previous generation, so you can minimize testing and validation when deploying new systems.

AI-FOCUSED LEAD MESSAGE: The processor designed for AI

The processor designed for AI With AI acceleration in every core, 5th Gen Intel® Xeon® processors are ready to handle your demanding AI workloads—including inference and fine tuning on models up to 20 billion parameters⁴—before you need to add discrete accelerators.

5TH GEN INTEL XEON BENEFIT PILLARS:

Performance	Al	Efficiency	Quality and security
■ 21% average performance gain at the same TDP as 4th Gen Intel® Xeon®	■ Less than 100 ms second-token latency on LLMs under 20 billion parameters ⁶	■ Up to 10x higher performance per watt using built-in accelerators ⁹	■ Software- and pin-compatible with 4th Gen Intel® Xeon® processors
processors¹ ■ Up to 16% memory bandwidth improvement³ and 2.7x increased last level cache⁴ vs. 4th Gen Intel® Xeon® processors ■ 84% average performance gain over 3rd Gen Intel® Xeon® processors⁵ ■ Out-of-box software	 ■ Up to 2.7x better AI inference performance vs. 4th Gen AMD EPYC processors⁷ ■ Up to 14x better AI training and inference performance vs. 3rd Gen Intel® Xeon® processors⁸ ■ Software tools and ecosystem to accelerate AI ■ Confidential computing 	■ Up to 3x higher performance per watt with built-in accelerators vs. 4th Gen AMD EPYC processors ¹⁰	 Silicon-based security features, confidential computing, and trust services Leading quality and enhanced telemetry Largest ecosystem of hardware and software vendors
performance using accelerators	to help protect Al models		

Availability of accelerators varies depending on SKU. Visit the <u>5th Gen Intel Product Information page</u> for additional product details.

See <u>Intel® Xeon® Processors Notices and Disclaimers</u> in next page.

Notes:

1. Average performance gain as measured by the geomean of SPEC CPU rate, STREAM Triad, and LINPACK compared to 4th Gen Intel® Xeon® processor. See G1 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.

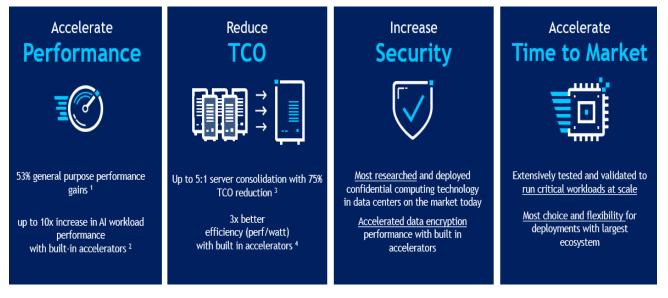
- 2. As measured by performance per watt on a range of AI, database, networking, and HPC workloads compared to 4th Gen Intel® Xeon® processor. See A2, A19-A25, D1, D2, D5, H1, N16 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
- 3. See G12 at intel.com/processor claims: 5th Gen Intel Xeon Scalable processors. Results may vary
- 4. See G11 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
- 5. Average performance gain as measured by the geomean of SPEC CPU rate, STREAM Triad, and LINPACK compared to 3rd Gen Intel® Xeon® processor. See G3 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
- 6. Based on Intel internal modelling as of December 2023.
- 7. Based on performance gains of 1.19x to 2.69x with Intel® Advanced Matrix Extensions (Intel® AMX) for inference on GPT-J, LLaMA-2 13B, DLRM, DistilBERT, BERT-Large, and ResNet50v1.5 compared to AMD EYPC 9654 and 9754. See A201, A202, A208-A211 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
- 8. Based on performance gains of 4.4x to 14.2x for training (ResNet50v1.5, BERT-Large, SSD-ResNet34, RNN-T, MaskRCNN, and DLRM) and 2.9x to14x for inference (ResNet50v1.5, BERT-Large, SSD-ResNet34, RNN-T (BF16 only), Resnext101 32x16d, MaskRCNN (BF16 only), DistilBERT) compared to 3rd Gen Intel® Xeon® processor. See A15-A16 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
- 9. Based on performance per watt gains of 1.46x to 10.6x with built-in accelerators on a range of AI, database, and networking workloads. See A19-A25, D1, D2, D5, N16 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
- 10. Based on performance per watt gains of 1.11x to 2.96x with built-in accelerators on a range of AI, database, networking, and HPC workloads compared to AMD EYPC 9554, 9654, and 9754. See A208-A211, D201-D204, H201, N201 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary

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- Availability of accelerators varies depending on SKU. Visit the Intel Product Information page for additional product details.
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TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 47 Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers Dimensions and Weight

Parameter	Value	
Height	3.42 in. (8.7 cm)	
Width (including slam latches)	16.9 in.(42.9 cm)	
Depth	30 in. (76.2 cm)	
Weight	1	
Weight with following options and no rail kit:	18.6 kgs = 41.01 lbs	
0* HDDs, 0* CPU (with Heat sink), 0* DIMM, 1* 2300W PSU, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	(NVMe SKU)	
Weight with following options and including rail kit:	22.3 kgs = 49.16 lbs	
0* 2.5 HDDs, 0* CPU (with Heat sink), 0* DIMM, 1* 2300W PSU, mLOM, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	(NVMe SKU)	
Weight with following options and no rail kit:	19.4 kgs = 42.77 lbs	
1* HDD, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	(NVMe SKU)	
Weight with following options and including rail kit:	23.1 kgs = 50.93 lbs	
1* 2.5 HDDs, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, mLOM, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	(NVMe SKU)	
Weight with following options and no rail kit:	23.5 kgs = 51.81 lbs	
8* HDDs, 2* CPUs (with Heat sink), 32* DIMMs, 2* 2300W PSUs, mLOM card, Riser Cage 1 (Without PCle), Riser Cage 2 (Without PCle), Riser Cage 3 (Without PCle)	(NVMe SKU)	
Weight with following options and including rail kit:	28.0 kgs = 61.73 lbs (NVMe SKU)	
8* 2.5 HDDs, 2* CPUs (with Heat sink), 32* DIMMs, 2* 2300W PSUs, mLOM, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)		
Weight with following options and no rail kit:	19.2 kgs = 42.33 lbs	
0* HDDs, 0* CPU (with Heat sink), 0* DIMM, 1* 2300W PSU, mLOM card, Riser Cage 1 (Without PCle), Riser Cage 2 (Without PCle), Riser Cage 3 (Without PCle), 2* Raid Tray	(SAS SKU)	
Weight with following options and including rail kit:	22.9 kgs = 50.49 lbs	
0^{\ast} 2.5 HDDs, 0^{\ast} CPU (with Heat sink), 0^{\ast} DIMM, 1^{\ast} 2300W PSU, 2^{\ast} Raid Tray , mLOM, Riser Cage 1 (Without PCle), Riser Cage 2 (Without PCle), Riser Cage 3 (Without PCle)	(NVMe SKU)	
Weight with following options and no rail kit:	20 kgs = 44.09 lbs	
1* HDD, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe), 2* Raid Tray	(NVMe SKU)	

Table 47 Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers Dimensions and Weight

Parameter	Value	
Weight with following options and including rail kit:	23.7 kgs = 52.25 lbs	
1* 2.5 HDDs, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, 2* Raid Tray , mLOM, Riser Cage 1 (Without PCle), Riser Cage 2 (Without PCle), Riser Cage 3 (Without PCle)	(NVMe SKU)	
Weight with following options and no rail kit:	28.6kgs = 63.05 lbs (NVMe SKU)	
24* HDDs, 2* CPUs (with Heat sink), 32* DIMMs, 2* 2300W PSUs, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe), 2* Raid Tray		
Weight with following options and including rail kit:	33.1 kgs = 72.97lbs	
24* 2.5 HDDs, 2* CPUs (with Heat sink), 32* DIMMs, 2* 2300W PSUs, 2* Raid Tray , mLOM, Riser Cage 1 (Without PCle), Riser Cage 2 (Without PCle), Riser Cage 3 (Without PCle)	(NVMe SKU)	

Power Specifications

The server is available with the following types of power supplies:

- 1050 W V2 (DC) power supply (see *Table 48*).
- 1200 W (AC) power supply (see *Table 49*)
- 1600 W (AC) power supply (see *Table 50*)
- 2300 W (AC) power supply (see *Table 51*)

Table 48 HCIAF240C M7 All-NVMe/All-Flash Servers Power Specifications (1050 W V2 DC power supply)

Parameter	Specification
Input Connector	Molex 42820
Input Voltage Range (V rms)	-48
Maximum Allowable Input Voltage Range (V rms)	-40 to -72
Frequency Range (Hz)	NA
Maximum Allowable Frequency Range (Hz)	NA
Maximum Rated Output (W)	1050
Maximum Rated Standby Output (W)	36
Nominal Input Voltage (V rms)	-48
Nominal Input Current (A rms)	24
Maximum Input at Nominal Input Voltage (W)	1154
Maximum Input at Nominal Input Voltage (VA)	1154
Minimum Rated Efficiency (%) ¹	91
Minimum Rated Power Factor ¹	NA
Maximum Inrush Current (A peak)	15
Maximum Inrush Current (ms)	0.2
Minimum Ride-Through Time (ms) ²	5

- 1. This is the minimum rating required to achieve 80 PLUS Platinum certification, see test reports published at http://www.80plus.org/ for certified values
- 2. Time output voltage remains within regulation limits at 100% load, during input voltage dropout

Table 49 Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers 1200 W (AC) Power Supply Specifications

Parameter		Specif	ication	
Input Connector	IEC320 C14			
Input Voltage Range (Vrms)	100 to 240			
Maximum Allowable Input Voltage Range (Vrms)	90 to 264			
Frequency Range (Hz)	50 to 60			
Maximum Allowable Frequency Range (Hz)	47 to 63			
Maximum Rated Output (W) ¹	1100		1200	
Maximum Rated Standby Output (W)	48			
Nominal Input Voltage (Vrms)	100	120	208	230
Nominal Input Current (Arms)	12.97	10.62	6.47	5.84
Maximum Input at Nominal Input Voltage (W)	1300	1264	1343	1340
Maximum Input at Nominal Input Voltage (VA)	1300	1266	1345	1342
Minimum Rated Efficiency (%) ²	90	90	91	91
Minimum Rated Power Factor ²	0.97	0.97	0.97	0.97
Maximum Inrush Current (A peak)	20			
Maximum Inrush Current (ms)	0.2			
Minimum Ride-Through Time (ms) ³	12			

- 1. Maximum rated output is limited to 1100W when operating at low-line input voltage (100-127V)
- 2. This is the minimum rating required to achieve 80 PLUS Titanium certification, see test reports published at http://www.80plus.org/ for certified values
- 3. Time output voltage remains within regulation limits at 100% load, during input voltage dropout

Table 50 Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers 1600 W (AC) Power Supply Specifications

Parameter		Specification		
Input Connector		IEC320 C14		
Input Voltage Range (V rms)		200 to 240		
Maximum Allowable Input Voltage Range (V rms)		180	0 to 264	
Frequency Range (Hz)		50 to 60		
Maximum Allowable Frequency Range (Hz)		47 to 63		
Maximum Rated Output (W)		1600		
Maximum Rated Standby Output (W)		36		
Nominal Input Voltage (V rms)	100	120	208	230
Nominal Input Current (A rms)	NA	NA	8.8	7.9
Maximum Input at Nominal Input Voltage (W)	NA	NA	1778	1758
Maximum Input at Nominal Input Voltage (VA)	NA	NA	1833	1813
Minimum Rated Efficiency (%) ¹	NA	NA	90	91
Minimum Rated Power Factor ²	NA	NA	0.97	0.97
Maximum Inrush Current (A peak)		30		
Maximum Inrush Current (ms)		0.2		
Minimum Ride-Through Time (ms) ²		12		

^{1.} This is the minimum rating required to achieve 80 PLUS Platinum certification, see test reports published at http://www.80plus.org/ for certified values

^{2.} Time output voltage remains within regulation limits at 100% load, during input voltage dropout

Table 51 Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers 2300 W (AC) Power Supply Specifications

Parameter		Specification		
Input Connector		IEC320 C20		
Input Voltage Range (Vrms)		100 to 240		
Maximum Allowable Input Voltage Range (Vrms)		90 to 264		
Frequency Range (Hz)		50 to 60		
Maximum Allowable Frequency Range (Hz)		47 to 63		
Maximum Rated Output (W) ¹		2300		
Maximum Rated Standby Output (W)		36		
Nominal Input Voltage (Vrms)	100	120	208	230
Nominal Input Current (Arms)	13	11	12	10.8
Maximum Input at Nominal Input Voltage (W)	1338	1330	2490	2480
Maximum Input at Nominal Input Voltage (VA)	1351	1343	2515	2505
Minimum Rated Efficiency (%) ²	92	92	93	93
Minimum Rated Power Factor ²	0.99	0.99	0.97	0.97
Maximum Inrush Current (A peak)		30		
Maximum Inrush Current (ms)		0.2		
Minimum Ride-Through Time (ms) ³		12		

Notes:

- 1. Maximum rated output is limited to 1200W when operating at low-line input voltage (100-127V)
- 2. This is the minimum rating required to achieve 80 PLUS Titanium certification, see test reports published at http://www.80plus.org/ for certified values
- 3. Time output voltage remains within regulation limits at 100% load, during input voltage dropout



NOTE: For configuration-specific power specifications, use the power calculator at this URL: http://ucspowercalc.cisco.com

Environmental Specifications

The environmental specifications for Cisco HCIAF240C M7 All-NVMe/All-Flash Servers are listed in Table 52.

Table 52 Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers Environmental Specifications

Parameter	Minimum
Operating Temperature	5°C to 45°C (supports ASHRAE Class A4 and/or Class A3 and/or Class A2)
	ASHRAE Class A3 will be generic test profile unless otherwise specified by product engineering.
	System shall continue to operate with a single fan failure (one failed impeller in dual impeller housings) across the ASHRAE recommended operating range of 18 °C to 27 °C. While undesired, increased power consumption and/or acoustic noise is permitted during a fan fail event.
Extended Operating Temperature	5°C to 40°C (41°F to 104°F) with no direct sunlight
	Humidity condition: Uncontrolled, not to exceed 50% RH starting condition
	Derate the maximum temperature by 1°C (33.8°F) per every 305 meters of altitude above 900m
Non-Operating Temperature	Dry bulb temperature of -40°C to 65°C (-40°F to 149°F)
Operating Relative Humidity	8% to 90% relative humidity, non-condensing, with maximum wet bulb 28°C (82.4°F) within operational temperature range of 5°C to 50°C (41°F to 122°F)
Non-Operating Relative Humidity	5% to 93% relative humidity, non-condensing, with a maximum wet bulb temperature of 28°C across the 20°C to 40°C dry bulb range.
Maximum Operating Duration	Unlimited
Operating Altitude	A maximum elevation of 3050 meters (10,006 ft)
Non-Operating Altitude	An elevation of 0 to 12,000 meters (39,370 ft)
Sound Power level, Measure	1RU: 5.5B
A-weighted per ISO7779 LWAd (Bels) Operation at 23°C (73°F)	2RU: 5.8B
Specialist at 25 € (75 1)	Racked product: 6.8B
Sound Pressure level, Measure	1RU: 40dB
A-weighted per ISO7779 LpAm (dBA) Operation at 23°C (73°F)	2RU: 43dB
	Racked product: 55dB

Extended Operating Temperature Hardware Configuration Limits

Table 53 Cisco Compute Hyperconverged HCIAF240C M7 All-NVMe/All-Flash Servers Extended Operating Temperature Hardware Configuration Limits

Platform ¹	ASHRAE A3 (5°C to 40°C) ²	ASHRAE A4 (5°C to 45°C) ³
Processors:	155W+	155W+ and 105W+ (4 or 6 Cores)
Memory:	LRDIMMs	LRDIMMs
Storage:	M.2 SATA SSDs	M.2 SATA SSDs
	NVMe SSDs	NVMe SSDs
		HDDs or SSDs (Rear Bays)
Peripherals:	PCIe NVMe SSDs	PCIe NVMe SSDs
	GPUs	GPUs
		VICs (Slots 1 and 4)
		NICs (Slots 1 and 4)
		HBAs (Slots 1 and 4)

- 1. Two PSUs are required and PSU failure is not supported
- 2. Non-Cisco UCS qualified peripherals and/or peripherals that consume more than 25W are not supported
- 3. High power or maximum power fan control policy must be applied

Compliance Requirements

The regulatory compliance requirements for servers are listed in Table 54

Table 54 Regulatory Compliance Requirements

Parameter	Description
Regulatory Compliance	Products should comply with CE Markings per directives 2014/30/EU and 2014/35/EU
Safety	UL 60950-1/62368-1
	CAN/CSA-C22.2 No. 60950-1/62368-1
	IEC/EN 60950-1/62368-1
	AS/NZS 62368.1
	GB 4943.1-2022
	CNS 15598-1:2020
EMC - Emissions	47CFR Part 15 (CFR 47) Class A
	AS/NZS CISPR32 Class A
	CISPR32 Class A
	EN55032 Class A
	ICES003 Class A
	VCCI-CISPR32 Class A
	EN61000-3-2
	EN61000-3-3
	KS C 9832 Class A
	EN 300386 Class A
EMC - Immunity	EN55035
	EN55024
	CISPR24/35
	EN300386
	KS C 9835
	IEC/EN61000-6-1

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