

# Determine the Serial Number of Catalyst Switch Components

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## Introduction

This document describes how to determine the serial numbers of various replaceable components on Cisco Catalyst switches.

## Prerequisites

### Requirements

There are no specific requirements for this document.

### Components Used

The information in this document is based on these software and hardware versions:

- Various Catalyst switches
- Various software versions

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

## Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

## Background Information

The serial numbers are necessary to create a database of the parts in the network. When you create a service request with [Cisco Technical Support](#), you must have the serial number of the affected devices at hand. This requirement is especially the case when you need a replacement part, or return materials authorization (RMA).

The serial number of Cisco Catalyst switches cannot be modified. For management purposes, you can configure the Cisco Catalyst switches that run Cisco IOS® software to return a custom string. In order to create a custom string, issue the **snmp-server chassis-id** command in global configuration mode.



**Note:** For specific information about show commands, see [Show Commands](#).

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## Catalyst 6500

To determine the serial number for the chassis and other components, issue the `show idprom` command:

```
<#root>
6506#
show idprom ?
  all           selects all FRU-types
  backplane     specify backplane
  clock         specify clock <number>
  ear1          specify ear1 <slot>
  fan-tray      specify fan-tray <number>
  interface     interface name
  module        specify module <slot>
  power-supply specify power-supply <number>
  rp            specify RP (MSFC) <slot>
  supervisor    specify supervisor <slot>
  vtt           specify VTT <number>
```

To obtain the chassis serial number, issue the **show idprom backplane** command:

```
<#root>
6506#
show idprom backplane

IDPROM for backplane #0
(FRU is 'Catalyst 6500 6-slot backplane')
OEM String = 'Cisco Systems'
```

Product Number = 'WS-C6506'

Serial Number = 'TBA03270652'

Manufacturing Assembly Number = '73-3436-01'

Manufacturing Assembly Revision = 'A0'

Hardware Revision = 1.0

Current supplied (+) or consumed (-) = -A

To obtain the module serial number, issue the **show idprom module slot <slot number>** command. Alternatively, you can issue the **show module** command:

```
<#root>
```

```
6506#
```

```
show module
```

```
Mod Ports Card Type                               Model
Serial No.
-----
 1   2 Catalyst 6000 supervisor 2 (Active)      WS-X6K-S2U-MSFC2
SAD055006NE
 3   0 2 port adapter FlexWAN                   WS-X6182-2PA
SAD04350EEU
 4  48 SFM-capable 48-port 10/100 Mbps RJ45    WS-X6548-RJ-45
SAD055108C2
```


```
Mod MAC addresses                               Hw   Fw       Sw           Status
-----
 1 0001.6415.a602 to 0001.6415.a603           3.2  6.1(3)   7.5(0.6)HUB6 Ok
 3 0001.6413.c86b to 0001.6413.c8aa           1.5  12.1(13)E1 12.1(13)E1  Ok
 4 0001.63d3.e77a to 0001.63d3.e7a9           4.0  6.3(1)   7.5(0.6)HUB6 Ok
```

```
Mod Sub-Module                               Model          Serial          Hw   Status
-----
 1 Policy Feature Card 2                      WS-F6K-PFC2    SAD055004VA     3.0  Ok
 1 Cat6k MSFC 2 daughterboard                 WS-F6K-MSFC2   SAD055006VF     2.0  Ok
```

```
Mod Online Diag Status
```

```
-----
 1 Pass
 3 Not Supported
 4 Pass
```

---

 **Note:** Use the `show diagbus` command to determine the serial number of port adapters on the Flex WAN module.

---

# Catalyst 4500

## Catalyst 4500 Supervisor Engine II+/III/IV

To determine the serial number of the chassis and other components use the **show idprom** command:

```
<#root>

Switch#

show idprom ?

    all          show all non-interface IDPROMs
    chassis      show IDPROM for chassis
    fan-tray     show IDPROM for system fan tray
    interface    show contents of gbic connected to this interface
    module       show IDPROM for module
    power-supply show IDPROM for power supply
    supervisor   show IDPROM for supervisor
```

To obtain the chassis serial number use the `show idprom chassis` command:

```
<#root>

Switch#

show idprom chassis

Chassis Idprom :
Common Block Signature = 0xABAB
Common Block Version = 1
Common Block Length = 144
Common Block Checksum = 4081
Idprom Size = 256
Block Count = 2
FRU Major Type = 0x4001
FRU Minor Type = 37
OEM String = Cisco Systems, Inc.
Product Number = WS-C4506
Serial Number = FOX0627A001
Part Number = 73-8107-04
Part Revision = 01
Manufacturing Deviation String = 0
Hardware Revision = 0.4
Manufacturing Bits = 0x0000
Engineering Bits = 0x0000
Snmp OID = 0.0.0.0.0.0.0.0
Power Consumption = 0
RMA Failure Code = 0 0 0 0
Chassis Block Signature = 0x4001
Chassis Block Version = 1
Chassis Block Length = 22
Chassis Block Checksum = 628
Feature Bits = 0x0000000000000000
MAC Base = 000a.4172.df40
MAC Count = 64
```



```

1      2  1000BaseX (GBIC) Supervisor(active)  WS-X4014
JAB054109H1

3      48  10/100BaseTX (RJ45)                WS-X4148
JAB025202M6

4      6  1000BaseX (GBIC)                    WS-X4306
JAB023403BG

```

M	MAC addresses	Hw	Fw	Sw	Status
1	000a.4172.df40 to 000a.4172.df41	0.5	12.1(12r)EW	12.1(13)EW(0.34)	Ok
3	0050.730b.2340 to 0050.730b.236f	1.0			Ok
4	0010.7bfa.7ca4 to 0010.7bfa.7ca9	2.0			Ok

## Catalyst 3750

Use the **show version** command to determine the chassis serial number and switch model type, as the example here shows. You find all switch stack members, chassis, and serial number information in the output:

```

<#root>

3750#

show version

Cisco Internetwork Operating System Software
Cisco IOS (tm) C3750 Software (C3750-I5-M), Version 12.1(14)EA1, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Tue 22-Jul-03 13:17 by antonino
Image text-base: 0x00003000, data-base: 0x008F0CF8

ROM: Bootstrap program is C3750 boot loader
BOOTLDR: C3750 Boot Loader (C3750-HBOOT-M) Version 12.1(11r)AX, RELEASE SOFTWARE (fc1)

3750RJ uptime is 1 hour, 29 minutes
System returned to ROM by power-on
System image file is "flash:c3750-i5-mz.121.14-EA1/c3750-i5-mz.121.14-EA1.bin"

cisco WS-C3750-24TS (PowerPC405) processor (revision A0) with 120822K/10240K bytes of memory.
Processor board ID CAT0726R0ZU
Last reset from power-on
Bridging software.
2 Virtual Ethernet/IEEE 802.3 interface(s)
48 FastEthernet/IEEE 802.3 interface(s)
16 Gigabit Ethernet/IEEE 802.3 interface(s)
The password-recovery mechanism is enabled.

512K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address : 00:0D:29:B4:18:00

```

Motherboard assembly number : 73-7055-06  
Power supply part number : 341-0034-01  
Motherboard serial number : CAT0726043V  
Power supply serial number : PHI0708009K  
Model revision number : A0  
Motherboard revision number : A0

Model number : WS-C3750-24TS-E

System serial number : CAT0726R0ZU

Switch Ports Model SW Version SW Image

```
-----  
* 1 26 WS-C3750-24TS 12.1(14)EA1 C3750-I5-M  
2 26 WS-C3750-24TS 12.1(14)EA1 C3750-I5-M  
3 12 WS-C3750G-12S 12.1(14)EA1 C3750-I5-M
```

Switch 02

```
-----  
Switch Uptime : 1 hour, 29 minutes  
Base ethernet MAC Address : 00:0D:29:B4:3F:00  
Motherboard assembly number : 73-7055-06  
Power supply part number : 341-0034-01  
Motherboard serial number : CAT07260438  
Power supply serial number : PHI0708008X  
Model revision number : A0  
Motherboard revision number : A0
```

Model number : WS-C3750-24TS-E

System serial number : CAT0726R10A

Switch 03

```
-----  
Switch Uptime : 1 hour, 29 minutes  
Base ethernet MAC Address : 00:0D:BD:6A:3E:00  
Motherboard assembly number : 73-8307-06  
Power supply part number : 341-0048-01  
Motherboard serial number : CAT073205S2  
Power supply serial number : DTH0731055Z  
Model revision number : A0  
Motherboard revision number : A0
```

Model number : WS-C3750G-12S-E

System serial number : CAT0732R0M4

Top assembly part number : 800-23419-01  
Top assembly revision number : A0

Configuration register is 0xF

3750#

## Catalyst 3560

To determine the chassis serial number and switch model type use the **show version** command:

```
<#root>

3560#

show version

Cisco Internetwork Operating System Software
Cisco IOS (tm) C3560 Software (C3560-I5-M), Version 12.1(19)EA1c, RELEASE SOFTWARE (fc2)
Copyright (c) 1986-2004 by cisco Systems, Inc.
Compiled Tue 03-Feb-04 05:56 by yenanh
Image text-base: 0x00003000, data-base: 0x0091D404

ROM: Bootstrap program is C3560 boot loader
BOOTLDR: C3560 Boot Loader (C3560-HBOOT-M) Version 12.1(19r)EA1b, RELEASE SOFTWARE (fc2)

3-8-03-CATS3560 uptime is 8 weeks, 4 days, 18 hours, 16 minutes
System returned to ROM by power-on
System image file is "flash:c3560-i5-mz.121-19.EA1c.bin"

cisco WS-C3560-24PS (PowerPC405) processor (revision D0) with 118776K/12288K bytes of memory.
Processor board ID CSG0802POG4
Last reset from power-on
Bridging software.
1 Virtual Ethernet/IEEE 802.3 interface(s)
24 FastEthernet/IEEE 802.3 interface(s)
2 Gigabit Ethernet/IEEE 802.3 interface(s)
The password-recovery mechanism is enabled.

512K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address : 00:0E:39:E9:32:80
Motherboard assembly number : 73-9299-01
Power supply part number : 341-0029-03
Motherboard serial number : CAT075108EK
Power supply serial number : LIT074900K3
Model revision number : D0
Motherboard revision number : C0

Model number : WS-C3560-24PS-E
System serial number : CSG0802POG4

Top Assembly Part Number : 800-24814-01
Top Assembly Revision Number : D0
Version ID : N/A
Hardware Board Revision Number : 0x08
```

## Catalyst 3550

To determine the chassis serial number and switch model type use the **show version** command:

```
<#root>

Cat3550#
```



**show version**

Cisco Internetwork Operating System Software  
Cisco IOS (tm) C3550 Software (C3550-I5Q3L2-M), Version 12.1(12c)EA1, RELEASE SOFTWARE (fc1)  
Copyright (c) 1986-2002 by cisco Systems, Inc.  
Compiled Mon 25-Nov-02 00:07 by antonino  
Image text-base: 0x00003000, data-base: 0x0075FE48

ROM: Bootstrap program is C3550 boot loader

Cat3550 uptime is 4 days, 2 hours, 57 minutes  
System returned to ROM by power-on  
System image file is "flash:c3550-i5q3l2-mz.121-12c.EA1.bin"

cisco WS-C3550-48 (PowerPC) processor (revision G0) with 65526K/8192K bytes of memory.  
Processor board ID CHK0642W02B  
Last reset from warm-reset  
Bridging software.  
Running Layer2/3 Switching Image

Ethernet-controller 1 has 12 Fast Ethernet/IEEE 802.3 interfaces

Ethernet-controller 2 has 12 Fast Ethernet/IEEE 802.3 interfaces

Ethernet-controller 3 has 12 Fast Ethernet/IEEE 802.3 interfaces

Ethernet-controller 4 has 12 Fast Ethernet/IEEE 802.3 interfaces

Ethernet-controller 5 has 1 Gigabit Ethernet/IEEE 802.3 interface

Ethernet-controller 6 has 1 Gigabit Ethernet/IEEE 802.3 interface

48 FastEthernet/IEEE 802.3 interface(s)  
2 Gigabit Ethernet/IEEE 802.3 interface(s)

The password-recovery mechanism is enabled.  
384K bytes of flash-simulated non-volatile configuration memory.  
Base ethernet MAC Address: 00:0B:46:8A:2F:80  
Motherboard assembly number: 73-5701-07  
Power supply part number: 34-0967-01  
Motherboard serial number: CAT0641027L  
Power supply serial number: DCA06392BU2  
Model revision number: G0  
Motherboard revision number: A0

**Model number: WS-C3550-48-SMI**

**System serial number: CHK0642W02B**

Configuration register is 0x10F

## **Catalyst 2950/2970/2940**

To determine the chassis serial number and switch model type use the `show version` command:

<#root>

Cat2950#

```
show version
```

```
Cisco Internetwork Operating System Software  
Cisco IOS (tm) C2950 Software (C2950-I6Q4L2-M), Version 12.1(12c)EA1, RELEASE SOFTWARE (fc1)  
Copyright (c) 1986-2002 by cisco Systems, Inc.  
Compiled Sun 24-Nov-02 23:31 by antonino  
Image text-base: 0x80010000, data-base: 0x80562000
```

```
ROM: Bootstrap program is CALHOUN boot loader
```

```
Cat2950 uptime is 4 days, 2 hours, 52 minutes  
System returned to ROM by power-on  
System image file is "flash:c2950-i6q4l2-mz.121-12c.EA1.bin"
```

```
cisco WS-C2950G-48-EI (RC32300) processor (revision C0) with 21002K bytes of memory.  
Processor board ID FHK0624W0HS  
Last reset from system-reset  
Running Enhanced Image  
48 FastEthernet/IEEE 802.3 interface(s)  
2 Gigabit Ethernet/IEEE 802.3 interface(s)
```

```
32K bytes of flash-simulated non-volatile configuration memory.  
Base ethernet MAC Address: 00:09:E8:89:4A:40  
Motherboard assembly number: 73-7409-08  
Power supply part number: 34-0965-01  
Motherboard serial number: FOC06230ERQ  
Power supply serial number: DAB062143BP  
Model revision number: C0  
Motherboard revision number: B0
```

```
Model number: WS-C2950G-48-EI
```

```
System serial number: FHK0624W0HS
```

```
Configuration register is 0xF
```

## Catalyst 2900XL/3500XL

To determine the chassis serial number and switch model type use the `show version` command:

```
<#root>
```

```
Switch#
```

```
show version
```

```
Cisco Internetwork Operating System Software  
Cisco IOS (tm) C3500XL Software (C3500XL-C3H2S-M), Version 12.0(5.2)XU, MAINTENANCE  
INTERIM SOFTWARE  
Copyright (c) 1986-2000 by cisco Systems, Inc.  
Compiled Mon 17-Jul-00 18:29 by ayounes  
Image text-base: 0x00003000, data-base: 0x00301F3C
```

```
ROM: Bootstrap program is C3500XL boot loader
```

```
Switch uptime is 4 days, 3 hours, 4 minutes  
System returned to ROM by power-on  
System image file is "flash:c3500XL-c3h2s-mz-120.5.2-XU.bin"
```

Cisco WS-C3548-XL (PowerPC403) processor (revision 0x01) with 16384K/1024K bytes of memory. Processor board ID FOC0616X0RG, with hardware revision 0x00  
Last reset from power-on

Processor is running Enterprise Edition Software  
Cluster command switch capable  
Cluster member switch capable  
48 FastEthernet/IEEE 802.3 interface(s)  
2 Gigabit Ethernet/IEEE 802.3 interface(s)

32K bytes of flash-simulated non-volatile configuration memory.  
Base ethernet MAC Address: 00:09:7C:8E:78:80  
Motherboard assembly number: 73-3903-09  
Power supply part number: 34-0971-02  
Motherboard serial number: FOC06160L07  
Power supply serial number: APQ061200VZ  
Model revision number: M0  
Motherboard revision number: A0

**Model number: WS-C3548-XL-EN**

**System serial number: FOC0616X0RG**

Configuration register is 0xF

## Catalyst 2948GL3/4908G-L3/4980G-L3

To determine the chassis serial number use the `show hardware` command:

```
<#root>
```

```
2948g-13#
```

```
show hardware
```

```
Model: Cat-2948G-L3 Date: 17:49:42 UTC Tue Mar 18 2003
```

```
XPIF FPGA File:      xpif_fpga_0_72b_CC1k.rbt  
XPIF FPGA Date:     Wed Dec  8 17:05:42 1999
```

```
Slot 0/0:
```

```
Chip 0 Reset Count: 0      Chip 1 Reset Count: 0  
Chip 2 Reset Count: 0      Chip 3 Reset Count: 0  
Chip 4 Reset Count: 0      Chip 5 Reset Count: 0  
Chip 6 Reset Count: 0      Chip 7 Reset Count: 0  
Chip 8 Reset Count: 0      Chip 9 Reset Count: 0  
Chip 10 Reset Count: 0     Chip 11 Reset Count: 0
```

```
EPIF Version      : 0          CAM size: 32 KB
```

```
Ucode Version     : 1.0
```

```
Ucode Image       : EPIF_UCODE_RUNTIME
```

```
Port Phy Setup
```

```
Port1 :DONE      Port2 :DONE      Port3 :DONE      Port4 :DONE  
Port5 :DONE      Port6 :DONE      Port7 :DONE      Port8 :DONE  
Port9 :DONE      Port10:DONE     Port11:DONE     Port12:DONE  
Port13:DONE     Port14:DONE     Port15:DONE     Port16:DONE  
Port17:DONE     Port18:DONE     Port19:DONE     Port20:DONE  
Port21:DONE     Port22:DONE     Port23:DONE     Port24:DONE
```

```
Port25:DONE      Port26:DONE      Port27:DONE      Port28:DONE
Port29:DONE      Port30:DONE      Port31:DONE      Port32:DONE
Port33:DONE      Port34:DONE      Port35:DONE      Port36:DONE
Port37:DONE      Port38:DONE      Port39:DONE      Port40:DONE
Port41:DONE      Port42:DONE      Port43:DONE      Port44:DONE
Port45:DONE      Port46:DONE      Port47:DONE      Port48:DONE
```

Slot 0/1:

```
XPIF Version      : 0                      CAM size: 128 KB
Ucode Version     : 1.0
Ucode Image       : XPIF_UCODE_RUNTIME
Port Phy Setup
  Port49:DONE     Port50:DONE
```

```
IDPROM Contents   :
  FRU Type        : 0x0.0x0
  OEM String      : Cisco_Systems
```

```
Product Number   : WS-C2948G-L3
```

```
Serial Number    : FOX05330ADH
```

```
Mfg. Assembly No. : 73-4083-07
Mfg. Assembly Ver. : A0
Hardware Version   : 1.7
FPGA Version       : 0
SNMP IOD           : 9.5.1.3.1.1.2.275
RMA Code           : 0
Feature Bits       : 0x00000000
MAC Address Base   : 00:07:85:07:DC:00
Total MAC Adrs.   : 1024
```

## Catalyst 9000

To determine the chassis serial number use the **show version** command. Alternatively, you can use the **show module** command to display a smaller output:

```
<#root>
```

```
C9300#
```

```
show version
```

```
Cisco IOS XE Software, Version 17.06.04
Cisco IOS Software [Bengaluru], Catalyst L3 Switch Software (CAT9K_IOSXE), Version 17.6.4, RELEASE
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2022 by Cisco Systems, Inc.
Compiled Sun 14-Aug-22 08:58 by mcpre
```

```
Cisco IOS-XE software, Copyright (c) 2005-2022 by cisco Systems, Inc.
All rights reserved. Certain components of Cisco IOS-XE software are
licensed under the GNU General Public License ("GPL") Version 2.0. The
software code licensed under GPL Version 2.0 is free software that comes
with ABSOLUTELY NO WARRANTY. You can redistribute and/or modify such
```

GPL code under the terms of GPL Version 2.0. For more details, see the documentation or "License Notice" file accompanying the IOS-XE software, or the applicable URL provided on the flyer accompanying the IOS-XE software.

ROM: IOS-XE ROMMON

BOOTLDR: System Bootstrap, Version 17.8.1r[FC2], RELEASE SOFTWARE (P)

C9300 uptime is 1 week, 2 days, 17 hours, 51 minutes  
Uptime for this control processor is 1 week, 2 days, 17 hours, 54 minutes  
System returned to ROM by Reload Command at 07:14:20 jst Wed Aug 2 2023  
System restarted at 07:29:56 jst Wed Aug 2 2023  
System image file is "flash:packages.conf"  
Last reload reason: Reload Command

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to [export@cisco.com](mailto:export@cisco.com).

#### Technology Package License Information:

Technology-package Current	Type	Technology-package Next reboot
network-advantage	Smart License	network-advantage
dna-advantage	Subscription Smart License	dna-advantage

AIR License Level: AIR DNA Advantage  
Next reload AIR license Level: AIR DNA Advantage

Smart Licensing Status: Registration Not Applicable/Not Applicable

cisco C9300-24UX (X86) processor with 1317097K/6147K bytes of memory.  
Processor board ID FJC2325E0HB  
5 Virtual Ethernet interfaces  
8 Gigabit Ethernet interfaces  
64 Ten Gigabit Ethernet interfaces  
4 TwentyFive Gigabit Ethernet interfaces  
4 Forty Gigabit Ethernet interfaces  
2048K bytes of non-volatile configuration memory.  
8388608K bytes of physical memory.  
1638400K bytes of Crash Files at crashinfo:.  
11264000K bytes of Flash at flash:.

Base Ethernet MAC Address : c4:c6:03:9a:bd:80  
Motherboard Assembly Number : 73-18276-03

```

Motherboard Serial Number      : FJZ23210BTF
Model Revision Number          : D0
Motherboard Revision Number    : B0

Model Number                   : C9300-24UX

System Serial Number           : FJC2325E0HB

CLEI Code Number               :

```

```

Switch Ports Model          SW Version  SW Image        Mode
-----
*   1 41    C9300-24UX    17.06.04      CAT9K_IOSXE    INSTALL

```

C9300#

show module

```

Switch  Ports  Model          Serial No.  MAC address    Hw Ver.    Sw Ver.
-----
1       41

```

C9300-24UX

FJC2325E0HB

```

c4c6.039a.bd80 V02      17.06.04

```

## Related Information

- [Show Commands](#)
- [Cisco Technical Support & Downloads](#)