Cisco Secure Network Analytics

Flow Collector 5210 Specification Sheet

ST-FC5210-E Flow Collector

> This specification sheet includes both appliances used for the Secure Network Analytics Flow Collector 5210 (Engine and Database). Your models may look slightly different. The Flow Collector 5210 Engine is connected to the Database by a crossover (copper network) cable with SFP+ connections that is supplied with the appliances.

Front View – Engine and Database
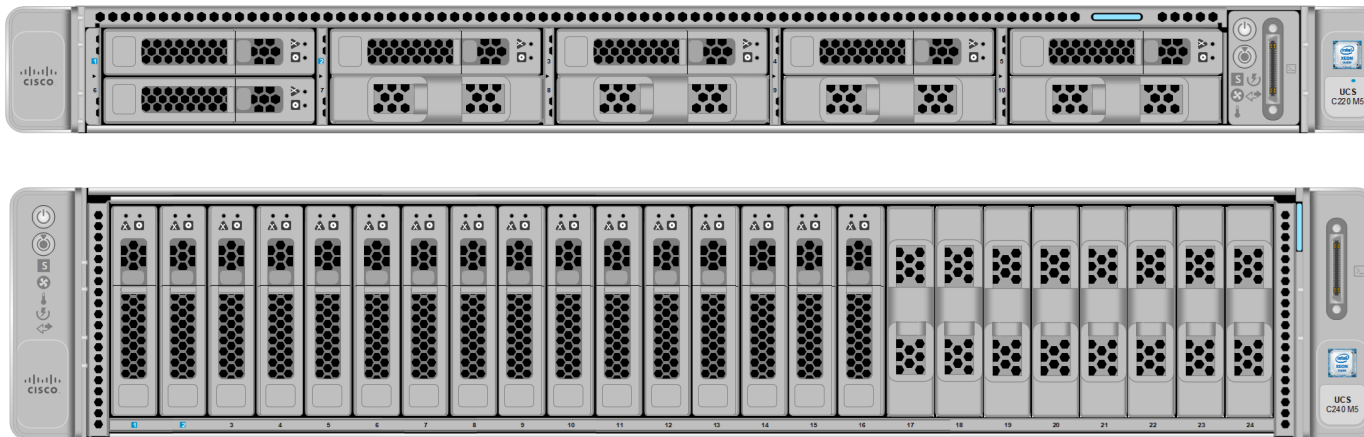
Back View – Engine and Database
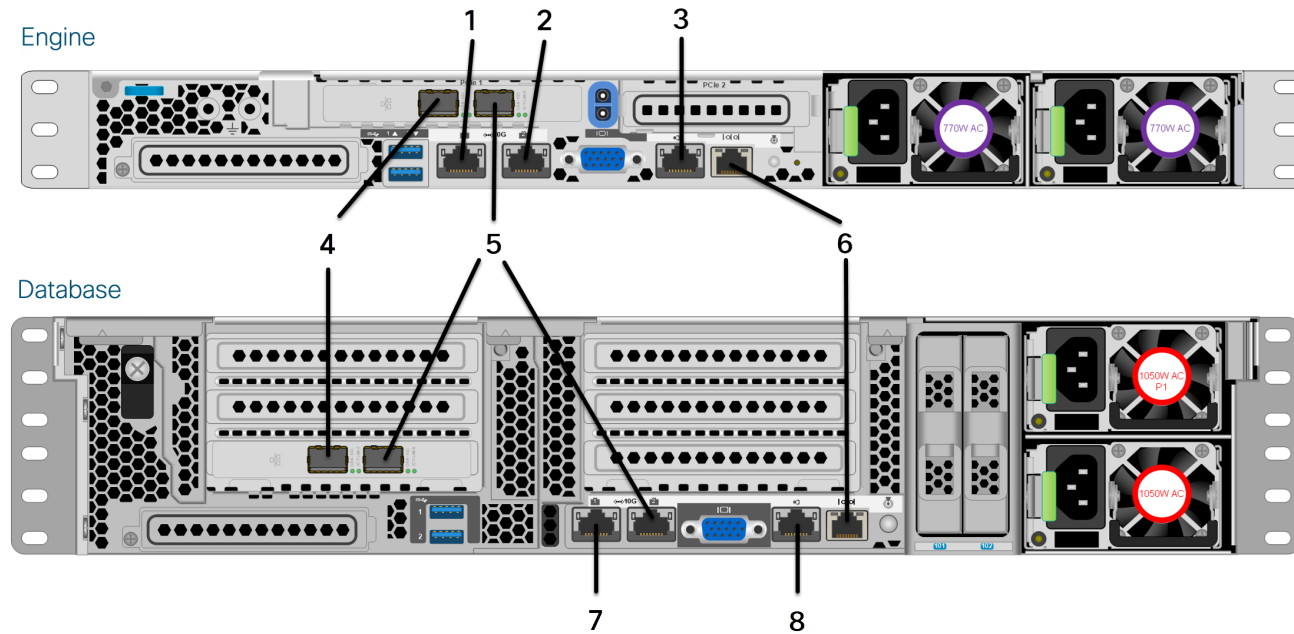
Engine

Database

1	100Mbps/1Gbps/10Gbps FC Engine Management and Primary Collection (eth 0)
2	100Mbps/1Gbps/10Gbps Additional Collection (eth1)
3	100Mbps/1Gbps CIMC Management

4	10G Engine to Database Cross Connect (eth2)
5	Reserved
6	Serial (115200 8-N-1) Console
7	100Mbps/1Gbps/10Gbps FC DB Management (eth0)
8	100Mbps/1Gbps CIMC Management

Engine Specifications

First Ship Date	March 2019
Final Ship Date	Currently Shipping
Product ID (PID)	ST-FC5210-E
UCS Platform	UCSC-C220-M5SX
Maximum Flows per Second (fps) (no Data Store deployed)	300,000 fps*
Maximum fps (Data Store deployed)	500,000 fps*
Network/NIC	**CIMC management port**: 1 – 100Mbps/1Gbps copper • Not required for Flow Collector operation. **Flow Collector management port**: 1 – 100Mbps/1Gbps/10Gbps copper • eth0 (port label "1") • Users connect to this port to access the WebUI for management. • This interface is also used to communicate to the Cisco Secure Network Analytics Manager and to receive flow data. **Additional collection port**: 1 – 100Mbps/1Gbps/10Gbps copper • eth1 (port label "2")

	- This interface is typically used for environments where a second network must be monitored and requires a separate physical interface to receive flow data. - You can configure this port to be a dedicated interface (ingress only) for receiving NetFlow traffic. **Reserved ports**: 1 - eth3 is unused and unsupported **Cross Connect port**: 1 – 10Gbps SFP - eth2 - This interface is a dedicated interconnect between the Engine and Database.
Maximum Number of Supported Interfaces	Up to 65535
Maximum Number of Supported Exporters	Up to 4096
Processor	**Before January 2021**: 2x Intel Xeon Scalable Gen 1 Gold 6130 = 2.1GHz x 16 cores /w/ 22MB L3 Cache **After January 2021:** 2x Intel Xeon Scalable Gen 2 Gold 6230 = 2.1GHz x 20 cores /w/ 27.5MB L3 Cache
Memory	16 GB DDR4 (16x) – 256 GB total
Storage	600 GB HDD (6x) – 2.4 TB total RAID 6

RAID Cache	2 GB
Rack Units	1U
Weight	37.9 pounds (17.2 kg)
Dimensions	**Height:** 1.7 inches (4.3 cm) **Width:** 16.9 inches (42.9 cm) **Depth:** 29.8 inches (75.8 cm)
Power	Redundant 770W AC input voltage: Nominal range 100–120 VAC, 200–240 VAC AC input frequency: Nominal range 50 to 60Hz (range: 47–63Hz) Maximum AC input current: 9.5A at 100 VAC, 4.5A at 208 VAC Power supply output voltage: 12 VDC
Humidity (Relative)	**Operating:** 10% to 90% **Storage:** 5% to 93%
Altitude	**Operating:** 0 feet to 10,000 feet (0 meters to 3,048 meters) **Storage:** 0 feet to 40,000 feet (0 meters to 12,192 meters)
Heat Dissipation	1816.63 BTU per hour maximum (estimated)
Temperature	**Operating:** 41° F to 95° F (5° C to 35° C) Derate the maximum temperature by 1°C for every 305 meters of altitude above sea

	level.
	Storage: –40° F to 149° F (–40° C to 65° C)

* These numbers are generated in our test environments using average customer data and at approximately 75% full for host cache and flow cache. There are several factors that may affect your specific performance, such as number of hosts, average size of flows, and more. While we do our best to represent the data as fairly and accurately as possible, your environment may experience different limits.

Database Specifications

First Ship Date	March 2019
Final Ship Date	Currently Shipping
Product ID (PID)	ST-FC5210-D
UCS Platform	UCSC-C240-M5SX
NIC	**CIMC management port**: 1 – 100Mbps/1Gbps copper • Not required for Flow Collector operation. **Flow Collector management port**: 1 – 100Mbps/1Gbps/10Gbps copper • eth0 (port label "1") • Users connect to this port to access the WebUI for management only. **Reserved ports**: 2 • eth3 is unused and unsupported **Cross Connect port**: 1 – 10Gbps SFP • eth2 • This interface is a dedicated interconnect between the Engine and Database.
Processor	**Before January 2021**: 2x Intel Xeon Scalable Gen 1 Gold 6130 = 2.1GHz x 16 cores /w/ 22MB L3 Cache

	After January 2021: 2x Intel Xeon Scalable Gen 2 Gold 6230 = 2.1GHz x 20 cores /w/ 27.5MB L3 Cache
Memory	32 GB DDR4 (16x) – 512GB total
Flow Storage	6.0 TB
Addressable Storage	16x1.2TB RAID 10 (9.6 TB)
RAID Cache	4 GB
Rack Units	2U
Weight	58.9 pounds (27.7 kg)
Dimensions	**Height:** 3.43 inches (8.7 cm) **Width:** 18.96 inches (44.8 cm) with rack latches; 17.65 in. (44.8 cm) without rack latches **Depth:** 30.18 inches (76.6 cm) with handles; 29.0 in. (73.8 cm) without handles
Network	Management Port: 2; 10/100/1000 copper CIMC Management Port: 100Mbps/1Gbps copper uplink to engine node
Power	Redundant 1050W AC input voltage: Nominal range 100–120 VAC, 200–240 VAC AC input frequency: Nominal range 50 to 60 Hz Max AC input current: 12.5 A at 100 VAC, 6 A at 208 VAC

	Power supply output voltage: 12 VDC
Humidity (Relative)	**Operating:** 10% to 90% **Storage:** 5% to 93%
Altitude	**Operating:** 0 feet to 10,000 feet (0 meters to 3,048 meters) **Storage:** 0 feet to 40,000 feet (0 meters to 12,192 meters)
Heat Dissipation	2492.78 BTU per hour maximum (estimated)
Temperature	**Operating:** 41° F to 95° F (5° C to 35° C) Derate the maximum temperature by 1° C for every 305 meters of altitude above sea level. **Storage:** –40° F to 149° F (–40° C to 65° C)