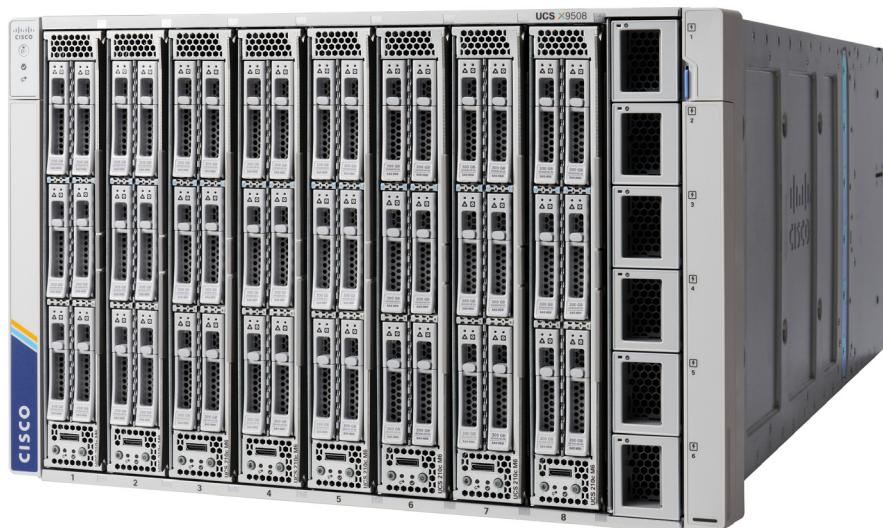


# Cisco UCS X9508 Chassis

A printed version of this document is only a copy and not necessarily the latest version. Refer to the following link for the latest released version:

<https://www.cisco.com/c/en/us/products/servers-unified-computing/ucs-x-series-modular-system/datasheet-listing.html>



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# OVERVIEW

The Cisco UCS® X-Series Modular System begins with the Cisco UCS X9508 chassis, engineered to be adaptable and future ready. It is a standard, open system designed to deploy and automate faster in concert with your hybrid cloud environment.

With a midplane-free design, I/O connectivity for the X9508 chassis is accomplished with front-loading, vertically oriented compute nodes intersecting with horizontally oriented I/O connectivity modules in the rear of the chassis. A Unified Ethernet fabric is supplied with the Cisco UCS 9108 Intelligent Fabric Modules. In the future, Cisco UCS X-Fabric Technology interconnects will supply other industry-standard protocols as standards emerge. Interconnections can be easily updated with new modules.

The 7 rack-unit (7RU) Cisco UCS X9508 chassis has 8 flexible slots that can house a combination of compute nodes and a pool of future I/O resources that may include GPU accelerators, disk storage, and nonvolatile memory.

At the top rear of the chassis are two intelligent fabric modules that connect the chassis to upstream Cisco UCS 6400 Series Fabric Interconnects. At the bottom are slots ready to house future I/O modules that can flexibly connect the compute modules with I/O devices. This Cisco UCS X-Fabric technology uses 'X' to denote a variable that can evolve with new technology developments.

Six 2800 W power supply units (PSUs) provide 54 VDC power to the chassis with N, N+1, N+2, and N+N redundancy. The higher voltage allows efficient power delivery with less copper and reduced power loss. Efficient, 100 mm, dual counter-rotating fans deliver industry-leading airflow and power efficiency. Optimized thermal algorithms enable different cooling modes to best support your environment. Cooling is modular so that future enhancements can potentially handle open- or closed-loop liquid cooling to support even higher-power processors.

The main benefits of the Cisco UCS X-Series Modular System are as follows:

- Cloud-operated infrastructure

Management is moved from the network into the cloud so that you can respond at the speed and scale of your business and manage all of your infrastructure. You can shape Cisco UCS X Series Modular System resources to workload requirements with the Cisco Intersight cloud-operations platform.

- An adaptable system designed for modern applications

Because requirements change often, you need a system that does not lock you into one set of resources when you find that you need another. For hybrid applications, and a range of traditional data center applications, with the Cisco UCS X Series Modular System, you can consolidate onto a single platform that combines the density and efficiency of blade servers with the expandability of rack servers. The result is better performance, automation, and efficiency.

- A system engineered for the future

The Cisco UCS X Series Modular System is emerging technology that reduces risk with a modular system designed to support future generations of processors, storage, nonvolatile memory, accelerators, and interconnects.

## OVERVIEW

- Support a broader range of workloads

A single server type supporting a broader range of workloads means fewer different products to support, reduced training costs, and increased flexibility.

**Figure 1** and **Figure 2** show the front and rear views of a populated X9508 chassis. Note that **Figure 1** shows four slots populated with compute nodes and four slots with blank panels. And **Figure 2** shows blank panels in place of actual X Fabric Modules.

Figure 1 Cisco UCS X9508 Chassis Front View (populated)

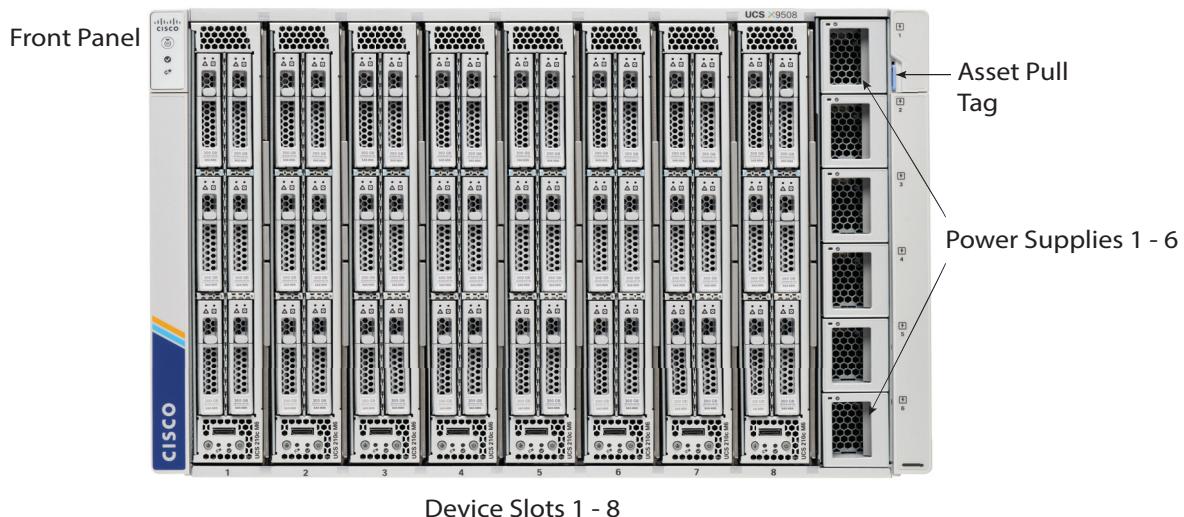


Figure 2 Cisco UCS X9508 Chassis Rear View with 2 IFMs (top) and 2 Fabric Module Slots (bottom)



## Intelligent Fabric Modules

Network connectivity is provided by a pair of Cisco UCS 9108 Intelligent Fabric Modules (IFMs). Similar to the fabric extenders used in the Cisco UCS 5108 Blade Server Chassis, these modules carry all network traffic to a pair of Cisco UCS 6400 Series Fabric Interconnects (FIs). Having a single point of network connectivity and control in a system provides deterministic latency. This, in turn, frees you to place workloads without regard to whether the compute nodes are in the same chassis. Each IFM features the following:

- Server ports: Up to 200 Gbps of unified fabric connectivity per compute node with two IFMs.
- Uplink ports: 8x 25-Gbps SFP28 ports. The unified fabric carries management, production, and Fibre Channel over Ethernet (FCoE) traffic to the fabric interconnects. There, management traffic connects to the Cisco Intersight cloud operations platform; FCoE traffic is passed to native Fibre Channel interfaces through universal ports on the fabric interconnects, and production Ethernet traffic is passed upstream to the data center network

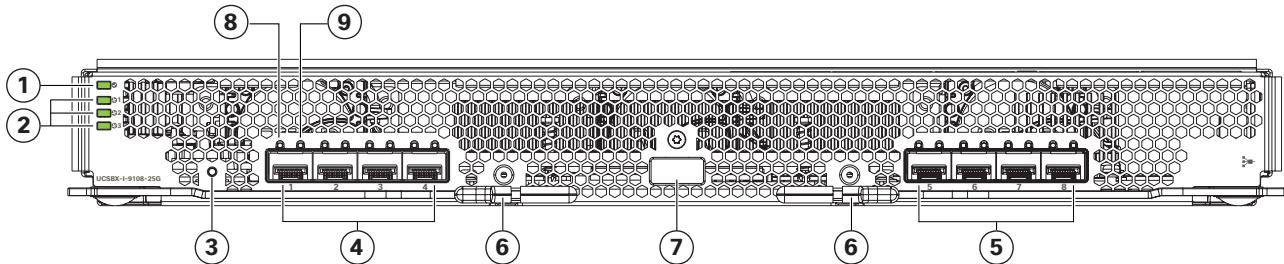
Up to two Intelligent Fabric Modules (IFMs) plug into the back of the UCS X9508 chassis.

The IFMs serve as line cards in the chassis and multiplex data from the Cisco UCS 210c compute nodes to the Fabric Interconnect (FI). They also monitor and manage chassis components such as fan units, power supplies, environmental data, LED status panel, and other chassis resources. The compute node's Keyboard-Video-Mouse (KVM) data, Serial over LAN (SoL) data, and Intelligent Platform Management Interface (IPMI) data also travel to the IFMs for monitoring and management purposes. In order to provide redundancy and failover, the IFMs are always used in pairs

There are 8 x SFP28 connectors on an IFM to interface with a Fabric Interconnect (FI). The IFM provides up to 8x 25 Gbit/s links for the UCS 9108-25G IFM. The links provide the end-to-end interface from a compute node in the X9508 chassis to the connections on a Fabric Interconnect (FI). When a compute node is inserted into the chassis, the compute node's upper mezzanine card (mLOM) plugs directly into the two IFMs using two orthogonal connectors (ODs). The X9508 chassis accommodates two Cisco UCS 9108-25G IFMs.

**Figure 3** shows the IFM front view characteristics.

**Figure 3 Cisco UCS 9108-25G IFM (front view)**



1	IFM status LED	6	Ejector handle
2	Fan #1 - #3 status LEDs	7	HDMI port (for factory use only)
3	Reset button	8	Link/port status LED (one per port)
4	SFP28 ports 1 - 4	9	Port activity LED (one per port)

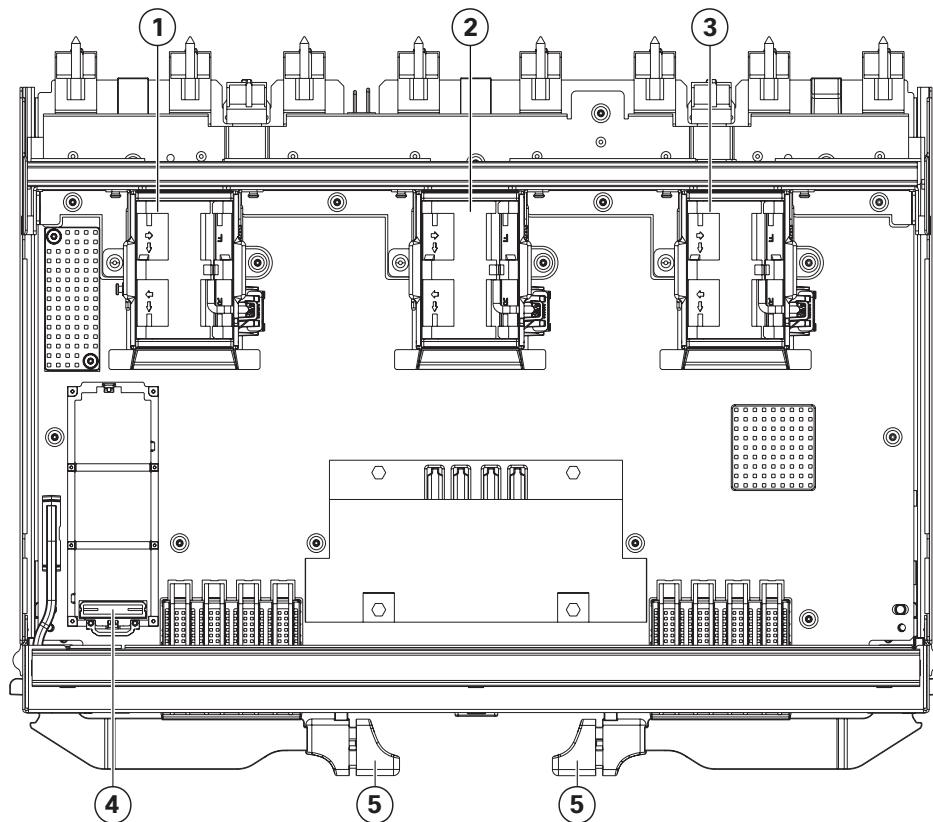
## OVERVIEW

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5	SFP28 ports 5 - 8	-	-
---	-------------------	---	---

**Figure 4** shows the IFM top view characteristics.

**Figure 4 Cisco UCS 9108-25G IFM (top view)**



1	Fan #1	4	Mini storage connector (future)
2	Fan #2	5	Ejector Handles
3	Fan #3	-	-

## X Fabric Modules (future release)

Configuring your Cisco UCS X210c M6 Compute Node in the X9508 chassis with both mLOM and mezzanine-form-factor virtual interface cards delivers up to 200 Gbps of network bandwidth to the node and prepares it for future devices with Cisco UCS X Fabric technology. The number and types of I/O devices are configured on demand through Cisco Intersight management.

X Fabric Modules slots provide an alternative path to bridging/switching within the chassis and interconnect compute node CPUs, storage devices, and communication devices so that all these components interoperate directly without any need to translate PCIe to Ethernet. The result is a significant reduction in cost, power, and latency.

There are x16 high speed links (PCIe Gen 4 is supported) connected from each X Fabric Module slot to each compute node. Depending on the use case, both slots can be used to provide higher throughput or better redundancy.

The X Fabric Module slots are located at the rear of the UCS X9508 chassis. When a compute node is inserted into the chassis, the compute node's mezzanine card plugs directly into the two Fabric Module slots (with no midplane).

# BASE CHASSIS STANDARD CAPABILITIES and FEATURES

**Table 1** lists the capabilities and features of the base X9508 chassis. Details about how to configure the chassis for a particular feature or capability are provided in [CONFIGURING the CHASSIS, page 10](#).

Table 1 Capabilities and Features

Capability/Feature	Description
7 RU Chassis	The X9508 chassis has 8x front-facing flexible slots. These can house a combination of compute nodes and a pool of future I/O resources that may include GPU accelerators, disk storage, and nonvolatile memory.
Compute Node Support	<ul style="list-style-type: none"> <li>■ General <ul style="list-style-type: none"> <li>• Support for 2-CPU single slot compute nodes</li> </ul> </li> <li>■ Compute Nodes <ul style="list-style-type: none"> <li>• Supports CPUs and future GPUs with 300W+ TDP, and 900W+ per compute node TDP</li> <li>• Support for highest end DDR/persistent memory configurations</li> <li>• Support for a minimum of 2 Mezzanine slots for premium VIC, GPU, and FPGA expansion</li> </ul> </li> </ul>
Intelligent Fabric Module	2x Cisco UCS 9108 Intelligent Fabric Modules (IFMs) at the top of the chassis that connect the chassis to upstream Cisco UCS 6400 Series Fabric Interconnects. Each IFM features the following: <ul style="list-style-type: none"> <li>■ Up to 100 Gbps of unified fabric connectivity per compute node.</li> <li>■ 8x 25-Gbps SFP28 uplink ports. The unified fabric carries management traffic to the Cisco Intersight cloud- operations platform, Fibre Channel over Ethernet (FCoE) traffic, and production Ethernet traffic to the fabric interconnects.</li> </ul>
Cisco UCS X-Fabric technology	At the bottom rear of the X9508 chassis are slots ready to house future I/O modules that can flexibly connect the compute modules with I/O devices. The “X” in Cisco UCS X-Fabric technology denotes a variable that can evolve with new technology developments.
Next Generation Power and Thermal Capability	<ul style="list-style-type: none"> <li>■ Power supplies <ul style="list-style-type: none"> <li>• Six 2800-Watt power supplies providing 54 V power</li> <li>• 4x 100 mm dual counter-rotating fans</li> <li>• N, N+1, N+2, and N+N redundancy</li> </ul> </li> <li>■ Cooling capacity <ul style="list-style-type: none"> <li>• 300 Watt+ total power dissipation for compute nodes</li> </ul> </li> </ul>
Density and Form Factor	<ul style="list-style-type: none"> <li>■ Industry-leading socket density per RU</li> <li>■ Minimum of 8 compute slots</li> <li>■ 32 DIMM socket support on a 2-socket compute node (beginning with the Ice Lake CPU family)</li> <li>■ Power, thermal, and form factor support for smart NICs, FPGA accelerators, and GPU cards</li> </ul>

**Table 1 Capabilities and Features (continued)**

Capability/Feature	Description
Fabric Bandwidth	<ul style="list-style-type: none"><li>■ Data fabric connectivity to compute nodes of 200 Gbps Ethernet speeds per compute node</li><li>■ Provision for future fabric expansion</li></ul>
Chassis Storage Support	<ul style="list-style-type: none"><li>■ Local storage</li></ul>
Virtual Card Interface (VIC) Support	<ul style="list-style-type: none"><li>■ Cisco VIC ASIC</li><li>■ 25G throughput</li></ul>

## CONFIGURING the CHASSIS

Follow these steps to configure the Cisco UCS X9508 chassis:

- [\*STEP 1 VERIFY BASE CHASSIS SKU, page 11\*](#)
- [\*STEP 2 SELECT COMPUTE NODES, page 12\*](#)
- [\*STEP 3 SELECT INTELLIGENT FABRIC MODULES, page 13\*](#)
- [\*STEP 4 CHOOSE TRANSCEIVERS AND CABLES \(OPTIONAL\), page 14\*](#)
- [\*STEP 4 CHOOSE TRANSCEIVERS AND CABLES \(OPTIONAL\), page 14\*](#)
- [\*STEP 5 CHOOSE POWER SUPPLIES, page 15\*](#)
- [\*STEP 6 SELECT INPUT POWER CORD\(s\), page 16\*](#)
- [\*SUPPLEMENTAL MATERIAL, page 18\*](#)
- [\*SUPPLEMENTAL MATERIAL, page 18\*](#)

## STEP 1 VERIFY BASE CHASSIS SKU

Verify the product ID (PID) of the base X9508 chassis as shown in [Table 2](#).

**Table 2 PID of the Base Cisco UCS X9508 Chassis**

Product ID (PID)	Description
UCSX-M6-MLB	UCS M6 Rack, Blade, Chassis MLB Use this major line bundle (MLB) PID to begin a new configuration.
UCSX-9508	UCS X9508 Chassis
UCSX-9508-U	UCS X9508 Chassis Configured
UCSX-9508-CH	DISTI: UCS X9508 Chassis

**Items included with the chassis:**

- Fans
- Chassis accessory kit
- Compute node blank panels (where needed)
- X Fabric module blank panels (two)
- Power supply blanks (where needed)
- Chassis Rear AC Power Expansion Module (two)
- AC power supply keying bracket

**Items not included with the chassis (but may be ordered separately):**

- Compute nodes
- IFMs
- X-Fabric modules (future)
- Power supplies

## STEP 2 SELECT COMPUTE NODES

### Choose Compute Nodes

---

The available single-slot compute node for the chassis is shown in [Table 4](#).

**Table 3 Available Compute Node**

Product ID (PID)	Description
UCSX-210C-M6	UCS 210c M6 Compute Node w/o CPU, Memory, Storage, Mezz

### Approved Configurations

---

- (1) Choose from one to eight compute nodes

### Caveats

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- The chassis can accommodate up to eight single-slot compute nodes. If any double-slot devices are used in the chassis, then fewer compute nodes can be installed in the chassis.

## STEP 3 SELECT INTELLIGENT FABRIC MODULES

The intelligent Fabric Module (IFM) options are:

- Cisco UCS 9108-25G

### Choose Intelligent Fabric Modules

---

The available Intelligent Fabric Modules are listed in *Table 4*. Each IFM connects to external Fabric Interconnects using 8x 25G ports.

**Table 4 Available Intelligent Fabric Modules (IFMs)**

Product ID (PID)	Description
UCSX-I-9108-25G	UCS 9108-25G IFM for X9508 chassis

### Approved Configurations

---

- (1) Choose two IFMs

## STEP 4 CHOOSE TRANSCEIVERS AND CABLES (OPTIONAL)

The Cisco UCS 9108-25G IFM supports the transceivers and cables shown in *Table 5*. Additional transceiver and cable compatibility details for Cisco UCS products are available at:

<https://www.cisco.com/c/en/us/support/interfaces-modules/transceiver-modules/products-device-support-tables-list.html>

**Table 5 UCS 9108\_25G Supported Transceivers**

Product ID (PID)	Description
<b>SFP28 25-Gbps Transceivers</b>	
SFP-25G-SR-S	25GBASE-SR SFP Module
SFP-25G-CSR-S	25GBASE-CSR SFP Module
<b>SFP28 25G Copper Cables with Integrated Transceivers</b>	
SFP-H25G-CU1M	25GBASE-CU SFP28 Cable 1 Meter
SFP-H25G-CU2M	25GBASE-CU SFP28 Cable 2 Meter
SFP-H25G-CU3M	25GBASE-CU SFP28 Cable 3 Meter
SFP-H25G-CU4M	25GBASE-CU SFP28 Cable 4 Meter
SFP-H25G-CU5M	25GBASE-CU SFP28 Cable 5 Meter
SFP-25G-AOC1M	25GBASE Active Optical SFP28 Cable, 1M
SFP-25G-AOC2M	25GBASE Active Optical SFP28 Cable, 2M
SFP-25G-AOC3M	25GBASE Active Optical SFP28 Cable, 3M
SFP-25G-AOC5M	25GBASE Active Optical SFP28 Cable, 5M
SFP-25G-AOC7M	25GBASE Active Optical SFP28 Cable, 7M
SFP-25G-AOC10M	25GBASE Active Optical SFP28 Cable, 10M

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### Caveats

---

- You should order enough transceivers and cables to accommodate your maximum foreseeable needs.

## STEP 5 CHOOSE POWER SUPPLIES

The X9508 chassis accommodates up to six power supplies. The six dual feed power supplies provide an overall chassis power capability of greater than 9000 W, and can be configured as N, N+1, N+2, or N+N redundant.

### Choose Power Supplies

The available power supplies are listed in *Table 6*.

**Table 6 Available Power Supplies**

Product ID (PID)	PID Description
UCSX-PSU-2800AC	UCS 9508 Chassis 2800 VAC Dual Voltage PSU

### Approved Configurations

- (1) Choose from 2 to 6 power supplies



**NOTE:** Two PSUs minimum are required for chassis operation. Four PSUs are recommended and the maximum number of PSUs is six.



**NOTE:** Use the Power Calculator to determine the correct number of power supplies. The Power Calculator can be found at this link:

<http://ucspowercalc.cisco.com>

## STEP 6 SELECT INPUT POWER CORD(s)

Select the appropriate AC power cords listed in *Table 7*. You may select up to 6 power cords.

**Table 7 Available Power Cords**

Product ID (PID)	PID Description	Comment
CAB-AC-16A-AUS	16A, 250 VAC	Australia
CAB-9K16A-BRZ	16A, 250 VAC	Brazil
UCSB-CABL-C19-BRZ	C19, 14', 16A, 250V	Brazil
CAB-AC16A-CH	16A, 250 VAC	China
CAB-AC-2500W-EU	16A, 250 VAC	Europe
CAB-AC-2500W-INT	16A, 250 VAC	International
CAB-AC-2500W-ISRL	16A, 250 VAC	Israel
CAB-US620P-C19-US	16A, 250VAC NEMA L6-20P to IEC C19	USA
CAB-AC-C6K-TWLK	20A, 250VAC NEMA L6-20 (Twist Lock) to IEC C19	USA
CAB-ACS-16	16A, 250 VAC	Switzerland
CAB-C19-CBN	16A, 250 VAC	Jumper cord C19/C20
CAB-US515P-C19-US	15A, 125 VAC NEMA 5-15 to IEC-C19	USA
CAB-US520-C19-US	20A, 125 VAC NEMA 5-20 to IEC-C19	USA
CAB-BS1363-C19-UK	13A, 250 VAC BS1363 to IEC C19	UK
CAB-9K16A-KOR	16A, 250 VAC CEE 7/7 to IEC C19	South Korea
CAB-C19-C20-3M-JP	16A, 250 VAC	Japan
CAB-AC-C19-TW	250.0 V, 16.0 A	Taiwan
CAB-IR2073-C19-AR	20A, 250 VAC IRSM 2073 to IEC C19	Argentina
CAB-SABS-C19-IND	16A, 250 VAC SABS 164-1 to IEC C19	India
CAB-C19-C20-IND	14 AWG, 250.0 V, 16.0 A, 9' L	India

**Table 7 Available Power Cords**

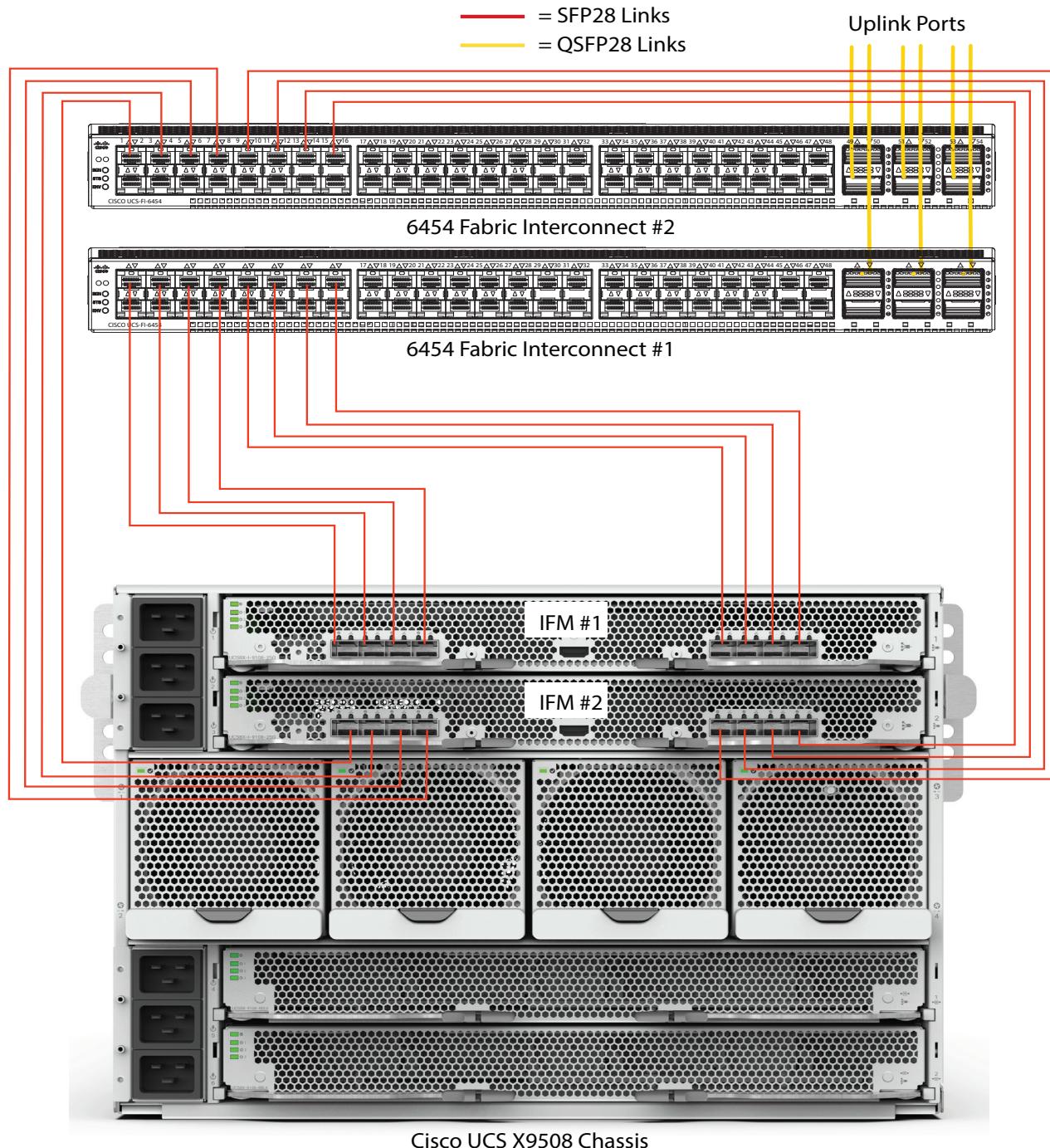
Product ID (PID)	PID Description	Comment
CAB-S132-C19-ISRL	16A, 250 VAC S132 to IEC C19	Israel
CAB-C2316-C19-IT	16A, 250 VAC CEI 23-16 to IEC C19	Italy
R2XX-DMYMPWRCORD	No power cord	

# SUPPLEMENTAL MATERIAL

## Connectivity

The connectivity from the IFMs to 6400 series Fabric Interconnects is shown in [Figure 5](#).

**Figure 5** IFM to 6400 Series Fabric Interconnect Connectivity



# TECHNICAL SPECIFICATIONS

## Physical Dimensions and Specifications

The physical specifications for the Cisco UCS X9508 chassis are listed in [Table 8](#)

**Table 8 Cisco UCS X9508 Chassis Specifications**

Parameter	Value												
Height	12.05 in (30.6 cm); 7 RU												
Width	17.55 (44.6 cm); fits standard 19-inch square-hole rack												
Depth	34.81 in (88.4 cm)												
Weight	Empty chassis: 95 lb (43.09 kg) Fully populated chassis: Approximately 400 lb (163.29 kg) depending on models and options selected												
Compute node slots	8 full-width slots.												
Intelligent Fabric Modules (IFMs)	2 x Cisco UCS 9108 Intelligent Fabric Module with 8x 25G SFP28 ports												
X Fabric Module slots	2x Cisco UCS X-Fabric module rear blank slots (for future expansion)												
Fan modules	4 x 100mm hot-swappable dual rotor fans												
Power supply bays	6												
Power supplies	2800 W Titanium certified <table border="1" data-bbox="660 1151 1428 1615"> <tr> <td>Input voltage</td> <td>100 to 127 V AC 200 to 240V AC</td> </tr> <tr> <td>Maximum input VA</td> <td>3200 VA at 230 VAC</td> </tr> <tr> <td>Maximum output power per power supply</td> <td>2800 W @200-240 VAC Nominal 1400 W @100-127 VAC Nominal</td> </tr> <tr> <td>Frequency</td> <td>50 to 60 Hz</td> </tr> <tr> <td>Output voltage</td> <td>54 VDC</td> </tr> <tr> <td>Power connector</td> <td>IEC320 C20</td> </tr> </table>	Input voltage	100 to 127 V AC 200 to 240V AC	Maximum input VA	3200 VA at 230 VAC	Maximum output power per power supply	2800 W @200-240 VAC Nominal 1400 W @100-127 VAC Nominal	Frequency	50 to 60 Hz	Output voltage	54 VDC	Power connector	IEC320 C20
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Frequency	50 to 60 Hz												
Output voltage	54 VDC												
Power connector	IEC320 C20												
Power redundancy	Nonredundant, N+1, N+2 and Grid (N+N)												
Power entry module (PEM)	2x PEM for AC inputs, PEM1 (PSU1,2,3), PEM2 (PSU4,5,6)												
Management	<b>Cisco Intersight Software</b> (SaaS, Virtual Appliance and Private Virtual Appliance)												

**Table 8 Cisco UCS X9508 Chassis Specifications (continued)**

Parameter	Value
Temperature: operating	50 to 95°F (10 to 35°C) (as altitude increases, maximum temperature decreases by 1°C per 300m)
Temperature: non-operating	-40 to 149°F (-40 to 65°C); maximum altitude is 40,000 ft
Humidity: operating	10% to 90% noncondensing, 28°C max
Humidity: non-operating	5% to 93% noncondensing, 38°C max
Altitude: operating	0 to 10,000 ft (0 to 3000m); maximum ambient temperature decreases by 1°C per 300m
Altitude: non-operating	40,000 ft (12,000m)
Sound pressure level	83 dBA (at normal operating temperature)

For configuration-specific power specifications, use the Cisco UCS Power Calculator at:

<https://ucspowercalc.cisco.com>

## Power Supply Specifications

Detailed specifications for the Cisco UCS X9508 power supplies are listed in **Table 9**

**Table 9 Cisco UCS X9508 Power Supply Specifications**

Parameter	Value
AC input voltage	Voltage Range 100-127 VAC, 200-240 VAC nominal (range: 90-140 VAC, 180-264 VAC)
AC input frequency	50 to 60 Hz nominal (range: 47 to 63 Hz)
Maximum AC input current	18 A @ 90 VAC 18 A @ 180 VAC
Maximum input VA	3200 VA at 230 VAC
Maximum output power per power supply	2800 W @ 200-240 VAC nominal 1400 W @ 100-127 VAC nominal
Maximum inrush current	35 A (sub cycle duration)
Minimum holdup time	10 ms @ 1400 W 10 ms @ 2800 W
Power supply main output voltage	54 VDC
Efficiency rating	80+ Titanium Certified
Input connector	IEC320 C20  System input power connectors are located in the chassis PEMs, not on the power supply

## Compliance Specifications

The regulatory standards compliance (safety and EMC) specifications for the Cisco UCS X9508 chassis are listed in *Table 10*.

**Table 10 Cisco UCS X9508 Chassis Compliance Specifications**

Parameter	Description
Regulatory compliance	Products comply with CE Markings per directives 2004/108/EC and 2006/108/EC
Safety	<ul style="list-style-type: none"> <li>■ UL 60950-1</li> <li>■ CAN/CSA-C22.2 No. 60950-1</li> <li>■ EN 60950-1</li> <li>■ IEC 60950-1</li> <li>■ AS/NZS 60950-1</li> <li>■ GB4943</li> </ul>
EMC: Emissions	<ul style="list-style-type: none"> <li>■ 47CFR Part 15 (CFR 47) Class A (FCC Class A)</li> <li>■ AS/NZS CISPR22 Class A</li> <li>■ CISPR2 2 Class A</li> <li>■ EN55022 Class A</li> <li>■ ICES003 Class A</li> <li>■ VCCI Class A</li> <li>■ EN61000-3-2</li> <li>■ EN61000-3-3</li> <li>■ KN22 Class A</li> <li>■ CNS13438 Class A</li> </ul>
EMC: Immunity	<ul style="list-style-type: none"> <li>■ EN50082-1</li> <li>■ EN61000-6-1</li> <li>■ EN55024</li> <li>■ CISPR24</li> <li>■ EN300386</li> <li>■ KN 61000-4 Series</li> </ul>

## System Requirements

The system requirements for the Cisco UCS X9508 chassis are listed in [Table 11](#).

**Table 11 Cisco UCS X9508 Chassis Compliance Specifications**

Item	Requirement
X-Series chassis	Cisco UCS X9508 Chassis
Fabric interconnect	Cisco UCS 6454 and 64108 fabric interconnects
Cisco Intersight	Intersight Managed Mode



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Cisco Systems, Inc.  
San Jose, CA

**Asia Pacific Headquarters**  
Cisco Systems (USA) Pte. Ltd.  
Singapore

**Europe Headquarters**  
Cisco Systems International BV Amsterdam,  
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