Spec Sheet

Cisco UCS XE9305 Chassis



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OVERVIEW

Cisco Unified Edge brings together computing, storage, routing, switching, and security into a single configurable solution to help IT organizations simplify the deployment, operations, and lifecycle management of edge infrastructure at global scale. Cisco Unified Edge is a fully integrated, edge-optimized, AI-ready, and SaaS managed platform, engineered to deliver a superior user experience with unprecedented visibility, consistency, and control for a host of edge use cases.

The foundation of Cisco Unified Edge is the Cisco UCS XE9305 modular system. A 3RU, short-depth, multi-mountable chassis, the Cisco UCS XE9305 provides five front facing slots that can accommodate modules (nodes) that are easy to service and adaptable to deliver a range of capabilities, from computing to storage and networking to security. The Cisco UCS XE9305 is designed to operate in an extended range of temperatures (5º to 45ºC) while maintaining a quiet noise level (40s dBA with 20% fans load at 25ºC), and is protected by an optional locking bezel with an independently replaceable air filter, allowing deployments in a wide range of physical spaces and flexible mounting options.

High bandwidth inter-node connectivity is achieved through active-active 25 Gbps switches embedded on the Cisco UCS Edge Chassis Management Controllers, overcoming the lack of bandwidth common to many edge locations and simplifying a key requirement for distributed computing environments running virtualized, containerized, or AI workloads. Managed by the Cisco Intersight™ cloud-operations platform, IT teams can scale deployments on Cisco Unified Edge to thousands of locations and shift focus from administrative tasks to business outcomes, leveraging edge-optimized infrastructure management capabilities such as fleet management, full-stack solution blueprints, and zero-touch provisioning.

The Cisco UCS XE9305 Chassis offers the following key benefits:

- Simplify edge infrastructure and operations:
  - Modular Edge-optimized Solution, combining compute, storage, networking, and security into a single platform, significantly reducing complexity for IT teams. By integrating all these components, edge IT teams can streamline deployment and simplify infrastructure management.
  - Zero-Touch Deployment, eliminating the need for skilled IT staff to be physically present at the edge with easy serviceability and remote deployment, and enabling IT teams to efficiently roll out new services and updates while reducing costly truck rolls.
  - Centralized Management, providing global consistency, repeatability, and control, and enabling the deployment of fleet blueprints, full-stack plug-and-play policies and settings at scale, leading to uniformity and ease of management across highly distributed edge locations.
  - End-to-End Visualization, offering global fleet visualization and cross-domain context visibility, improving operations for both server and network teams. This comprehensive view allows IT teams to monitor and manage their entire edge infrastructure effectively, enhancing operational efficiency and coordination across various domains.
- Unify edge systems:
  - Unifying edge systems, by bringing together key technologies to meet the distinctive needs of edge environments, while assuring security, manageability, and performance.
  - Unified platform, a modular edge-optimized AI-ready and SaaS managed platform integrating compute, network, storage, and security so IT teams can streamline deployment and simplify lifecycle management.

- Optimized for edge environments, meeting unique edge requirements for power, cooling, acoustics and space while supporting workloads of today and tomorrow.
- Integrated protection, extending advanced compute and networking platform-level physical and digital security across the entire system to protect edge operations. SaaS management platforms ensure that users are verified and authenticated before granting access, minimizing risks and protecting sensitive data.
- Streamline lifecycle management, reusing chassis power and cooling infrastructure across multiple generations or types of nodes, enhancing longevity, sustainability, and serviceability. The modular architecture lets organizations adopt technologies at their pace, simplifying lifecycle management with less risk.

- Redefine edge solutions:
  - Redefining edge solutions for AI era, by integrating smoothly with existing, edge environments, while delivering the accelerated performance required for AI applications. Cisco Unified Edge acts as a springboard to help organizations unlock new levels of data-powered efficiency and innovation.
  - AI-ready system, with support for advanced processors and accelerators, helping ensure that IT teams can efficiently run evolving workload demands without compromising on performance or efficiency.
  - Ecosystem integration, offering a choice of infrastructure software, such as hypervisors, container platforms, hyper converged infrastructure software, and Windows and Linux operating systems, Red Hat, VMware, and SUSE, provides flexibility to address any use case. This integration capability allows IT teams to tailor solutions to specific needs, for compatibility and optimized performance.
  - Validated edge solutions, offering tested and certified solutions for vertical-specific use cases, ensuring reliability. IT teams can deploy with confidence, knowing that the solutions are tailored to meet the unique challenges of their specific industry.
  - Continuous SaaS enhancements, offering advanced end-to-end visibility and remediation capabilities, allows IT teams to quickly identify and resolve issues, maintaining system integrity and performance over time.

Figure 1 show the front view and rear views of a populated XE9305 chassis.

Figure 1 Cisco UCS XE9305 Chassis Front and Rear View (populated)

Front view: Five slots populated with compute nodes only



Front view: Five slots populated with compute nodes and networking node



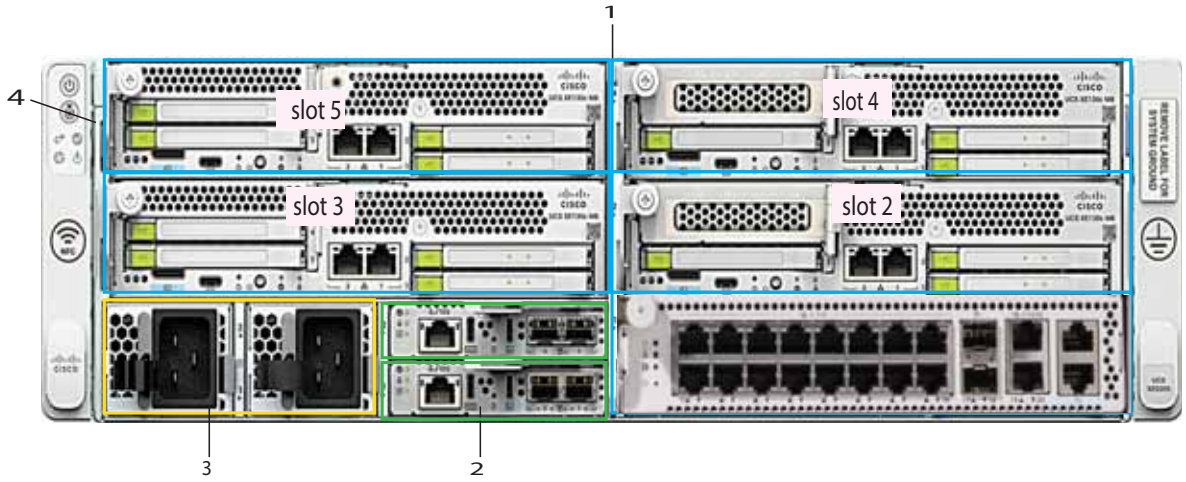
Rear View: Five Fans installed



Detailed Front View

The Cisco UCS XE9305 chassis front view shown in *Figure 2*.

Figure 2 Front View of XE9305 chassis

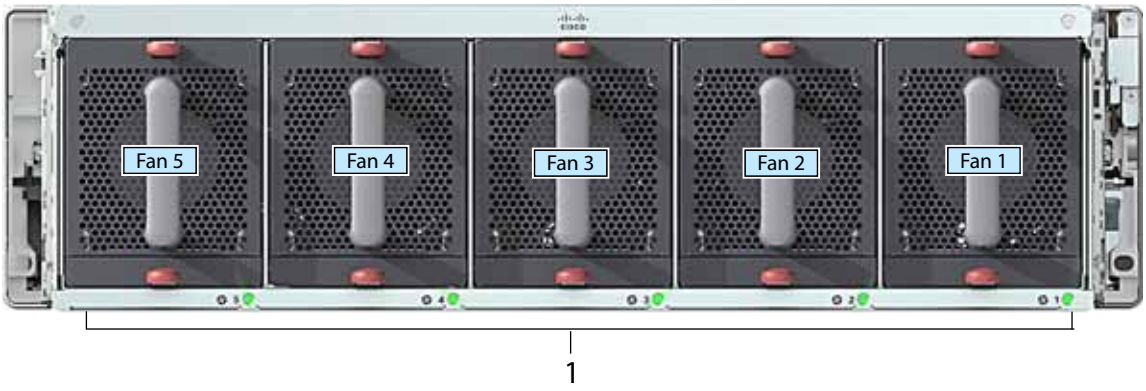


1	Slot 1 - 5: Five identical slots for compute nodes and networking node.	**2**	Redundant eCMC for remote management and northbound east-west inter-node networking. N+N for management and intra-chassis network redundancy Please check the eCMC port layout on *Figure 4*
3	Power supplies Two identical PSUs, hot-swappable, N+N redundancy	**4**	Power button and status LEDs for monitoring system health and powering compute nodes on and off locally.

Detailed Rear View

Figure 3 is an overall rear view of the Cisco UCS XE9305 chassis.

Figure 3 Rear View of Cisco UCS XE9305 chassis

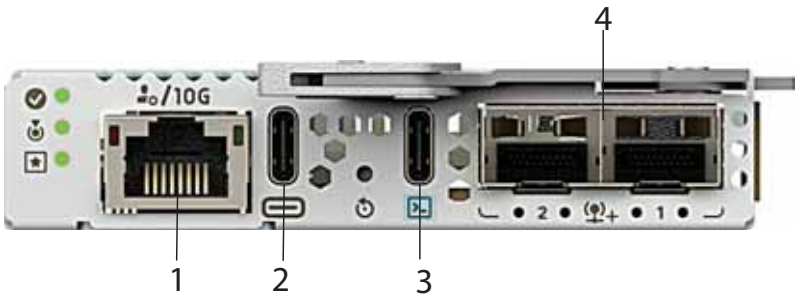


1	Cooling fans ■ (hot swappable, 4+1 redundancy)	-	-

eCMC port layout

Figure 4 is shows eCMC port layout.

Figure 4 eCMC port layout view



1	1/10Gb Management port for chassis management and KVM	**2**	USB-C port for local file transfer, BTE (Bluetooth Ethernet), etc.
3	Serial console access for recovery console	**4**	Dual 1/10/25 uplinks

BASE CHASSIS STANDARD CAPABILITIES and FEATURES

Table 1 lists the capabilities and features of the base XE9305 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
Form Factor	■ 3RU Chassis: • The XE9305 chassis has 5 front-facing flexible slots. • These can house a combination of compute nodes and future modules that may include networking node for routing, switching, Secure Access Services Edge capabilities.
Compute Node Support	■ General: • support for 1U and 2U compute nodes ■ Compute Nodes: • Refer to UCXE 130c M8 Spec sheet • Refer to UCXE 150c M8 Spec sheet
Secure Router Support	■ Can have 0,1 or 2 secure router nodes in a chassis ■ Secure Router Node: • Refer to Cisco C8255-G2-UCSXE Secure Router Node Spec Sheet.
Chassis Management Controllers (CMCs)	■ Two hot-swappable Cisco Edge Chassis Management Controllers (eCMCs) forming a unified fabric that provide connectivity between all nodes within the chassis and with upstream networks, and provide local chassis management and secure control plane connection with Cisco Intersgiht. Each eCMC features: • An embedded 25 Gbps switch with 300 Gbps of switching bandwidth • Five rear-facing 25 Gbps switch ports connecting to nodes within the chassis through the chassis mid-plane • Two front-panel 1/10/25 Gbps SFP+ uplink ports for data traffic • One front-panel 1/10 Gb RJ45 uplink port for management traffic. • One USB-C port for management console • One USB-C port for external storage connectivity
Power Supply	Two hot-swappable 2400W Titanium Power Supply Units (PSUs) providing N+N (“Grid” mode) redundancy, removable from the front for service via latching mechanism without special tooling.
Fan Module	Five 80 mm by 56 mm hot-swappable fan modules with acoustically optimizing cooling controls, removable from both the top and the rear for service via latching mechanism without special tooling.
Bezel	One optional locking bezel with separately replaceable air filter covering the entire front of the server, providing protection against physical tampering and filtration against ambient particulate matter.

Table 1 Capabilities and Features *(continued)*

Capability/Feature	Description
Near Field Communication (NFC)	Near Field Communication (NFC) capability embedded in the chassis to aid chassis identification, claiming and troubleshooting when used in conjunction with the Cisco Intersight mobile app.
Non-NFC Slam latch	Left Slam Latch without embedded Near Field Communication (NFC) capability
Fabric Bandwidth	■ Data fabric connectivity to compute nodes of 50 Gbps Ethernet speeds per compute node ■ Modular eCMC design allows for future hardware upgrade
Management	■ Cisco Intersight software (SaaS initially, Virtual Appliance and Private Virtual Appliance to follow)

CONFIGURING the CHASSIS

Follow these steps to configure the Cisco UCS XE9305 chassis:

- *STEP 1 VERIFY BASE CHASSIS SKU, page 11*
- *STEP 2 SELECT COMPUTE NODES, page 12*
- *STEP 3 SELECT eCMC and EXTENDED IMAGE CACHE, page 13*
- *STEP 4 BEZEL & AIR FILTER (OPTIONAL), page 14*
- *STEP 5 MOUNTING ACCESSORIES, page 15*
- *STEP 6 CHOOSE POWER SUPPLIES, page 16*
- *STEP 7 SELECT INPUT POWER CORD(s), page 17*

STEP 1 VERIFY BASE CHASSIS SKU

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

Table 2 Top Level Major Line Bundle ordering PIDs (MLB)

Product ID (PID)	Description
UCSXE-M8-MLB[1]	Unified Edge Chassis and Node MLB

Notes:

1. Configurable Chassis Spares are not orderable under MLB

Verify the product ID (PID) of the base XE9305 chassis as shown in *Table 3*.

Table 3 PID of the Base Cisco UCS XE9305 Chassis

Product ID (PID)	Description
UCSXE-9305-U	UCS-XE 3 RU Chassis (Chassis without eCMC, Bezel, Air filter, Mounting Accessories, PSU, cables)
UCSXE-9305=	Cisco UCS XE9305 Chassis Spare (Chassis without eCMC, Bezel, Air filter, Mounting Accessories, PSU, cables)
UCSXE-9305-CHS-U	Cisco UCS XE9305 Chassis without left slam latch (Chassis without eCMC, Bezel, Air filter, Mounting Accessories, PSU, cables)
UCSXE-9305-CHS=	Cisco UCS XE9305 Chassis without left slam latch Spare (Chassis without eCMC, Bezel, Air filter, Mounting Accessories, PSU, cables)
UCSXE-9305-CPL-NR	Left slam latch without embedded Near Field Communication Capability
UCSXE-9305-CPL-NR=	Left slam latch without embedded Near Field Communication Capability Spare

Items included with the chassis:	Items not included with the chassis (but may be ordered separately):
■ Fans	■ Compute nodes ■ Secure Router nodes
■ Compute node blank panels (Node slot blank (UCSXE-FSBK) where needed for UCS XE9305 Chassis)	■ Risers and GPU
■ Power supply blanks (where needed)	■ Transceivers and cables
	■ Power supplies
	■ Chassis accessory kit (mounting accessories, Bezel etc **NOTE:** The spare chassis can be configured without a compute node and populated with up to two Secure Router Nodes (SRNs)

STEP 2 SELECT COMPUTE NODES

Choose Compute Nodes

The available single-slot compute nodes for the chassis is shown in *Table 4*.

Table 4 Available Compute Nodes

Product ID (PID)	Description
UCSXE-130C-M8-12	UCS-XE130c M8 - 12-Core 1U Compute Node: (12 core version)
UCSXE-130C-M8-20	UCS-XE130c M8 - 20-Core 1U Compute Node: (20 core version)
UCSXE-130C-M8-32	UCS-XE130c M8 - 32-Core 1U Compute Sled: (32 core version)
UCSXE130C-M8-20-TR	UCS-XE130c M8 - 20-Core 1U Compute Node: (20 core version), curated with low lead time components
UCSXE-150C-M8-20	UCS-XE150c M8 - 20-Core 1U Compute Sled: (20 core version)
UCSXE-150C-M8-32	UCS-XE150c M8 - 32-Core 1U Compute Sled: (32 core version)

Approved Configurations

(1) Choose from one to five compute nodes

(2) Choose the Chassis Spare (UCSXE-9305=) if creating a configuration with just Secure Router Nodes. Refer to the Secure Router Node spec sheet for ordering information

Caveats

The chassis can accommodate up to five single-slot or a mix of single- and dual-slot compute nodes. If any networking nodes are used in the chassis, then fewer compute nodes can be installed in the chassis. If low-line AC power is used, fewer compute or networking nodes can be installed in the chassis. Consult the **UCS Power Calculator** for deployment planning.



NOTE: Refer to the compute node specification sheets below for more details on the components and PIDs: UCXE 130c M8 Spec sheet, UCXE 150c M8 Spec sheet and Cisco C8255-G2-UCSXE Secure Router Node Spec Sheet.

STEP 3 SELECT eCMC and EXTENDED IMAGE CACHE

Select eCMC and Extended Image Cache

Table 5 Available eCMC and Extended Image Cache

Product ID (PID)	Description
UCSXE-ECMC-G1	UCS-XE Edge Chassis Management Controller
UCSXE-ECMC-M2-75G	75GB M.2 SSD for eCMC Extended Image Cache

Approved Configurations

- Select two chassis management controllers (eCMC). If selecting the Extended Image Cache, select one for each eCMC for a total of two.

STEP 4 BEZEL & AIR FILTER (OPTIONAL)

Choose Bezel & Air Filter

The available Bezel & Air Filter are listed in *Table 6*.

Table 6 Available Bezel & Air Filter

Product ID (PID)	Description
UCSXE-BEZ-3	Security Bezel for UCS-XE 3 RU Chassis
UCSXE-BEZ-FLTR	Air Filter for UCS XE9305 Security Bezel

STEP 5 MOUNTING ACCESSORIES

Choose Mounting Accessories

Mounting Accessories are listed in *Table 7*.

Table 7 Available Mounting Accessories

Product ID (PID)	Description
UCSXE-RKMT2P	2-Post Rack Mount Kit for UCS XE9305 Chassis
UCSXE-RAIL	4-Post Rack Rail Kit for UCS XE9305 Chassis
UCSXE-WALL-MT-BKT[1]	Wall Mounting Brackets for UCS XE9305 Chassis
UCSXE-R2T-MT-BKT	Rack-to-Tower Mounting Brackets for UCS XE9305 Chassis
UCSXE-SHLFMT-BKT	Brackets for Horizontal Mount
UCSXE-MNT-KIT-NONE	No Mounting Kit Option

Notes:

1. Available in the future.

Approved Configuration

- Choose one of the available mounting accessories

STEP 6 CHOOSE POWER SUPPLIES

The Cisco XE9305 chassis supports two power supply units (PSUs) that deliver N+N redundancy. These PSUs can be easily removed from the front of the chassis for servicing, utilizing a latching mechanism that requires no special tools.

The available power supply is listed in *Table 8*.

Table 8 Available Power Supply

Product ID (PID)	PID Description	Type
UCSXE-PSU-2400W	2400 Watt Power Supply for UCS-XE9305 Chassis	AC
UCSXE-PSU-2400WDC	2400 Watt Power DC Supply for UCS-XE Chassis	DC

Approved Configurations

- Choose two power supplies



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 7 SELECT INPUT POWER CORD(s)

Select the appropriate AC power cords listed in *Table 9*. You may select two power cords.

Table 9 Available Power Cords

Product ID (PID)	PID Description	Comment
NO-POWER-CORD	No power cord	ECO friendly green option, no power cable will be shipped
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

Table 9 Available Power Cords

Product ID (PID)	PID Description	Comment
CAB-C19-C20-IND	14 AWG, 250.0 V, 16.0 A, 9' L	India
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

STEP 8 SELECT PACKING

The available Packing PID is listed in *Table 10*.



NOTE:

- The Cisco XE9305 each chassis is ship palletized
- For the UCSXE-PKG-MINIPLT=, a mini-pallet should be selected only if the Chassis Quantity (QTY) is 3 or less; otherwise, if the Chassis QTY is 4 or more, the item will be shipped on a regular pallet.

Table 10 Packing

Product ID (PID)	PID Description
UCSXE-PKG-MINIPLT=	Packing- small

TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 11 Chassis Dimensions and Weight

Parameter	Value
Height (3RU)	5.12 in (13 cm); 3 RU
Width	17.32in (44 cm)
Depth	**Server only:** 18 in. (45.7cm) **Server with security bezel or air filter:** 23 in. (58.4cm)
Weight:	
Empty chassis with 5x fans, 2x PSU, and 2x eCMC module	37.94 lbs. (17.21 kg)
Fully populated chassis	Approximately 82.23 lbs. (37.3 kg) depending on models and options selected
Compute Node slots	5x half-width slots
Fan modules	5 x 80mm hot-swappable dual rotor fans
Power supply bays	2

Environmental Specifications

Table 12 Chassis Environmental Specifications

Parameter	Value
Operating temperature	32° to 104°F (0° to 40°C)
Non-operating temperature	-40° to 158°F (-40° to 70°C)
Operating humidity	5% to 90% noncondensing
Non-operating humidity	5% to 95% noncondensing
Operating altitude	0 to 10,000 ft (0 to 3000m); maximum ambient temperature decreases by 1°C per 300m
Non-operating altitude	40,000 ft (12,000m)

Power Specifications

Table 13 2400W AC power Specifications

Parameter	Value
Input voltage	100 to 127 V AC 200 to 240V AC
Maximum input VA	2700 VA at 230 VAC
Maximum output power per power supply	2400W @200-240 VAC Nominal 1300W @100-127 VAC Nominal
Frequency	47 to 63 Hz
Output voltage	12V
Power connector	IEC60320 C20
Power redundancy	Grid (N+N)
Power supply bays	Two

Table 14 2400W DC power Specifications

Parameter	Value
Input voltage	-48 to -72V DC
Maximum input VA	2700 VA at -48V VDC
Maximum output power per power supply	2400W @ -48 to -72 VDC
Output voltage	12V
Power redundancy	Grid (N+N)
Power supply bays	Two

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

https://ucspowercalc.cisco.com

Table 15 Chassis power, with power measured on manual/fixed fan RPM, 100%, 90%, 80%.

			Watt (HL)	Watt (LL)	Quantity	Total (HL)	Total (LL)
Supply	PSU	12V_Main	2400W	1300W	1	2400	1300
Demand Power	eCMC		20		2	40	
	Compute STBY(CPU S5)	(CPU S5)	25		5	125	
	Sys FAN	Fan Speed 90%	59		5	295	
	PCB power loss		25.4		1	25.4	

Compliance Specifications

The regulatory standards compliance (safety and EMC) specifications for the Cisco UCS XE9305 chassis are listed in *Table 16*.

Table 16 Cisco UCS XE9305 Chassis Compliance Specifications

Parameter	Description
Regulatory compliance	Products comply with CE Markings per directives 2004/108/EC and 2006/108/EC
Safety	■ UL 60950-1 ■ CAN/CSA-C22.2 No. 60950-1 ■ EN 60950-1 ■ IEC 60950-1 ■ AS/NZS 60950-1 ■ GB4943
EMC: Emissions	■ 47CFR Part 15 (CFR 47) Class A (FCC Class A) ■ AS/NZS CISPR22 Class A ■ CISPR2 2 Class A ■ EN55022 Class A ■ ICES003 Class A ■ VCCI Class A ■ EN61000-3-2 ■ EN61000-3-3 ■ KN22 Class A ■ CNS13438 Class A
EMC: Immunity	■ EN50082-1 ■ EN61000-6-1 ■ EN55024 ■ CISPR24 ■ EN300386 ■ KN 61000-4 Series

System Requirements

The system requirements for the Cisco UCS XE9305 chassis are listed in *Table 17*.

Table 17 Cisco UCS XE9305 Chassis System Requirements

Item	Requirement
Unified Edge Chassis	Cisco UCS XE9305 Chassis
Cisco Intersight	Cisco Intersight: Required for management, operating in Cisco Intersight Managed Mode for full functionality
eCMC	UCSXE Edge Chassis Management Controller



NOTE:

- When UCS-XE9305chassis is configured solely with C8255-G2-UCSXE secure router nodes and no compute nodes NO Cisco Intersight license is required. Only Cisco Catalyst software licensing applies.
- When UCS-XE9305 chassis contains both compute nodes and C8255-G2-UCSXE, Intersight Server licenses are required only for the compute nodes. The Secure Router Node remains licensed via Catalyst software licensing.



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