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Cisco Catalyst 8300 Series Edge uCPE

Contents

Introduction

The Cisco Catalyst™ 8300 Series Edge Universal Customer Premises Equipment (uCPE) is a purpose-built x86 platform that is designed for branch virtualization. It enables device consolidation across network and security functions, improves operational flexibility and service agility, simplifies network operations, and results in reduced deployment times and fewer truck rolls for delivery of add-on services.

Figure 1.
Cisco Catalyst 8300 Series Edge uCPE

The Catalyst 8300 Series Edge uCPE is the next generation of the Cisco® 5400 Enterprise Network Compute System (ENCS) platforms.

With up to 20 Intel® Xeon® cores, the Catalyst 8300 Series enables you to run combinations of routers, firewalls, other network functions, and applications, all on a single device as guest Virtual Network Functions (VNFs) (in VM or Container form-factor including Kubernetes). With hardware-accelerated processing for crypto traffic, it can support throughputs to meet the demands of your branches and remote offices. Its compact 1-Rack-Unit (1RU) form factor with less than 18-inch depth makes it suitable for deployment in constrained spaces.

The Catalyst 8300 Series Edge uCPE comes with dual redundant and hot-pluggable power supply units to provide a robust, resilient, and reliable networking platform, as you expect from Cisco. You can configure the platform with a variety of memory and storage options to best meet your business requirements.

Product overview

Table 1. Product highlights

Product feature	Benefits and description
Multicore processors	● Intel Xeon D 20-core Ice Lake 2.0 GHz CPU
Memory	● Up to 128 GB of DDR4 DRAM
Storage options	● Flash-based high-speed NVMe disks ● 1 x M.2 or 1 x E1.S disk* for up to 2 TB ● 2 x U.2 2.5-in. disks for up to 8 TB ◦ JBODs or in Intel Virtual RAID on CPU (VROC)-based software RAID* ● Up to 10 TB of total storage
Embedded IPsec VPN hardware acceleration	● Support for hardware acceleration for Secure Sockets Layer (SSL) and crypto processing

Product feature	Benefits and description
Integrated Ethernet ports	• 7 ports that can used for WAN, LAN or management • 4 x 10 Gigabit Ethernet SFP+ ports • 2 x 1 Gigabit Ethernet Copper (RJ45) • 1 x 1 Gigabit Ethernet Copper (RJ45) 90 W of PoE (IEEE 802.3bt) (will be available in future with 750W AC Power Supply)
Redundant Power Supply Units	• Hot-pluggable dual Power Supply Units • AC or DC
Modularity	• 1 x Network Interface Module (NIM) slot for additional LAN / WAN ports* • 1 x Pluggable Interface Module (PIM) slot for 5G and LTE cellular connectivity*
Form factor	• Less than 18-in. depth and width • 1RU height

*Will be supported in future release

Performance

Table 2.   Performance specifications in controller (SD-WAN) mode

Traffic profile	C8000V (4 cores)	C8000V (8 cores)
SDWAN IMIX (IPSec)	3.6 Gbps	6.8 Gbps
SDWAN IQDF* IMIX	2.0 Gbps	4.2 Gbps

* IQDF: IPsec + QoS (Quality of Service)+ DPI (Deep Packet Inspection) + FNF (Flexible NetFlow)

Table 3.   Performance specifications in SD-Routing (autonomous) mode

Traffic profile	C8000v (4 cores)
IPv4 CEF IMIX	12.4 Gbps
IPv4 (IPsec) IMIX	5.4 Gbps

Overall platform benefits

Branch virtualization

The Cisco Catalyst 8300 Series Edge uCPE is purpose-built to support the connectivity needs of medium-sized to large branches. With up to 20 Intel Xeon cores, it enables you to run routers, firewalls, other network functions, and applications, all on a single device as guest VNFs (in VM or container form-factor including Kubernetes), and meet the throughput demands of your branches and remote offices. Its depth of less than 18 inches makes it suitable for deployment in constrained spaces.

End-to-end virtualization solution

Cisco provides the most comprehensive single-vendor end-to-end virtualization solution, with a variety of purpose-built Network Functions Virtualization (NFV) platforms to meet different throughput requirements, NFV Infrastructure Software (NFVIS) hypervisor operating system software, and a rich catalog of VNFs (in VM and container form factor including Kubernetes), including Cisco C8000V virtualized router and Cisco Thousand Eyes all managed by a single Cisco SD-WAN Manager orchestrator.

The Catalyst 8300 Series Edge uCPE is powered by Cisco's NFVIS hypervisor operating system software. NFVIS is preferred by most network administrators, as it gives them a familiar Cisco Command-Line Interface (CLI) to manage the device, as opposed to a generic Linux shell. NFVIS also offers a device-local GUI and YANG model and NETCONF-based APIs to give you operational flexibility.

To further enable scalable deployments, the Catalyst 8300 Series Edge uCPE is also supported within Cisco's SD-WAN Manager orchestration software. With SD WAN Manager, you now have one centralized portal to manage all your virtualized NFV platforms and the guest VMs running on them, along with all instances of the industry-leading Catalyst 8000V virtualized router.

Expandable and 5G-ready

Along with the seven built-in WAN / LAN ports, the platform offers even more expandability, as is common across the Cisco Catalyst 8000 family. It includes one PIM slot and one NIM slot that provide further customization to meet your unique business requirements.

The Catalyst 8300 Series Edge uCPE is built for 5G networks. With 5G or LTE PIM modules, this platform will support the use of cellular-based WAN for management traffic and data traffic in future.

With NIM modules you can add additional Power over Ethernet (PoE) ports and/or additional WAN / LAN ports with MACsec capabilities.

Accelerated services with Cisco SD-WAN

Cisco SD-WAN is a set of intelligent software services that allow you to connect users, devices, and branch office locations reliably and securely across a diverse set of WAN transport links. The Catalyst 8000V on the 8300 Series Edge uCPE can dynamically route traffic across the "best" link based on up-to-the-minute application and network conditions for great application experiences. You get tight control over application performance, bandwidth usage, data privacy, and availability of your WAN links – control you need as your branches conduct greater volumes of mission-critical business with both on-premises or cloud-based controllers.

Cloud-native agility with programmable software architecture

Catalyst 8000V software also delivers a feature-rich Cisco IOS® XE-based traditional routing stack that is common to all Cisco Catalyst 8000 platforms. With an integrated software image and a single binary file, you can choose between Cisco IOS XE SD-WAN mode and Cisco IOS XE classic routing modes and switch between them when needed.

Multilayer security

The Catalyst 8300 Series Edge uCPE platform provides a comprehensive set of security features to help ensure and maintain the integrity of the networking infrastructure in your enterprise. These include support for Cisco Secure Chain of Trust framework that provides end-to-end security. It ensures devices and data within your network are trusted and protected against malicious activities. It starts with hardware components that are sourced from trusted suppliers. One such hardware component is hardware secure boot, that ensures BIOS / UEFI to be executed on the system is legitimate and uncorrupted. Next, UEFI Secure Boot ensures the device will boot only with Cisco signed NFVIS hypervisor operating system and prevents execution of compromised software. Similarly, only properly signed guest VNFs can be hosted on the platform. The hardware based SUDI (Secure Unique Device Identifier) is used to ensure only authorized devices can establish a secure TLS or DTLS control–plane tunnel to the Cisco SD-WAN Manager orchestrator.

Additionally, there is capability of data-wipe in this NFV platform, with necessary NIST-supported utilities from hardware vendors. This data-wipe capability enables secure erase in RMA use-cases.

Platform details

Table 4.   Specifications unique to the Catalyst 8300 Series

Model	Description	CPU	Ethernet ports in-chassis	Memory
C8300-UCPE-1N20	Cisco Catalyst 8300 Series Edge uCPE up to 20 cores	Intel Xeon D-2796NT 20 cores 2.0 GHz base frequency	Total of 7 Ethernet ports in-chassis that can be used for WAN or LAN • 4 x 10 Gigabit Ethernet SFP+ (can also support 1 Gbps transceivers too) • 2 x 1 Gigabit Ethernet copper (RJ-45) ports • 1 x 1 Gigabit Ethernet copper (RJ-45) port with PoE*	32 GB to 128 GB Combinations supported: • 1 x 32 GB • 2 x 16 GB • 2 x 32 GB • 4 x 16 GB • 4 x 32 GB

* Will be supported in future release

Table 5.   Specifications common among the Catalyst 8000 family

Attributes	Description	Notes
Memory	• 4 x DDR4 DIMM slots	
M.2 or E1.S storage (mandatory)	• 1 x M.2 slot, or • 1 x E1.S slot*	• Boot disk • Device can have either an M.2 disk or an E1.S disk*
U.2 storage (optional)	• 2 x U.2 2.5-in. slots	Combinations supported: • Min can be 0 disks • 1 x 2 TB • 1 x 4 TB • 2 x 2 TB • 2 x 4 TB

RAID levels for optional U.2 storage	• Intel VROC-based software RAID*
	• When TWO U.2 HDDs are present, configure them as:
	  ◦ JBODs
	  ◦ RAID 0 (stripe)*
	  ◦ RAID 1 (mirror)*	

Other ports	• 1 x Ethernet copper (RJ-45) Cisco Integrated Management Controller (IMC) console port • 1 x serial (RJ-45) IMC console CLI-only port • 1 x Micro-USB NFVIS console CLI-only port • 1 x USB-A 3.0 port for supporting an external USB disk – not bootable, accessible only from NFVIS	
NFVIS Ethernet management port	• You may configure any ONE of three 1-Gbps Ethernet copper (RJ-45) ports for NFVIS device management	

Memory and storage options

Table 6.   Memory options

Product number	Description
MEM-C8300-16GB	16 GB DDR4 2933 MHz DIMMs
MEM-C8300-32GB	32 GB DDR4 2933 MHz DIMMs
Spares	
MEM-C8300-16GB=	16 GB DDR4 2933 MHz DIMMs Spare
MEM-C8300-32GB=	32 GB DDR4 2933 MHz DIMMs Spare

Table 7.   M.2 storage options

Product number	Description
M2USB-75G	M.2 USB 75 GB Storage
SSD-M2SED-600G	M.2 NVMe 600 GB Self-Encrypted-Disk (SED) Storage • SED functionality not supported. Disk will be enabled only in non-SED mode
SSD-M2SED-2T	M.2 NVMe 2 TB Self-Encrypted-Disk (SED) Storage • SED functionality not supported. Disk will be enabled only in non-SED mode
Spares	
M2USB-75G=	M.2 USB 75 GB Storage Spare
SSD-M2SED-600G=	M.2 NVMe 600 GB Self-Encrypted-Disk (SED) Storage Spare • SED functionality not supported. Disk will be enabled only in non-SED mode
SSD-M2SED-2T=	M.2 NVMe 2 TB Self-Encrypted-Disk (SED) Storage Spare • SED functionality not supported. Disk will be enabled only in non-SED mode

Table 8.   E1.S storage options[*]

Product number	Description
SSD-E1SSED-2T	E1.S NVMe 2 TB Self-Encrypted-Disk (SED) Storage • SED functionality not supported. Disk will be enabled only in non-SED mode
Spares	
SSD-E1SSED-2T=	E1.S NVMe 2 TB Self-Encrypted-Disk (SED) Storage Spare • SED functionality not supported. Disk will be enabled only in non-SED mode

[*] Will be supported in future release

Table 9.   U.2 2.5-in. storage options

Product number	Description
E-SSD-U2N-2TB	U.2 NVMe 2 TB 2.5" Storage
E-SSD-U2N-4TB	U.2 NVMe 4 TB 2.5" Storage
Spares	
E-SSD-U2N-2TB=	U.2 NVMe 2 TB 2.5" Storage Spare
E-SSD-U2N-4TB=	U.2 NVMe 4 TB 2.5" Storage Spare

Supported modules (future)

Table 10.   Network Interface Modules options*

Product number	Description
LAN and WAN modules	
C-NIM-4X	Switch module L2/L3 capable, MACsec, 4-port SFP+ 1/10 Gbps
C-NIM-8T	Switch module L2/L3 capable, MACsec, 8-port 1 Gbps copper
C-NIM-8M	Switch module L2/L3 capable, MACsec, 8-port 4x 2.5m Gbps copper, 4x PoE capable

* Will be supported in future release

Table 11.   Pluggable Interface Modules options*

Product number	Description
Cellular modules – 5G	
P-5GS6-R16SA-GL	5G Sub 6 GHz SDX65
Cellular modules – LTE	
P-LTEA7-NA	CAT 7 LTE PIM for North America
P-LTEA7-EAL	CAT 7 LTE PIM for Europe and LATAM
P-LTEA7-IN	CAT 7 LTE PIM for India

* Will be supported in future release

Power supplies

Table 12.   Power supply unit options

Product number	Description
PWR-CC1-400WAC	Cisco Catalyst 8300 400W AC PSU
PWR-CC1-400WDC	Cisco Catalyst 8300 DC PSU
PWR-CC1-760WAC	Cisco Catalyst 8300 760W AC PoE PSU*
Spares	
PWR-CC1-400WAC=	Cisco Catalyst 8300 400W AC PSU Spare
PWR-CC1-400WDC=	Cisco Catalyst 8300 DC PSU Spare
PWR-CC1-760WAC=	Cisco Catalyst 8300 760W AC PoE PSU Spare*

* Will be supported in future release

Table 13.   Power supply specifications

Power supply feature	PWR-CC1-400WAC	PWR-CC1-400WDC
Power maximum rating	400W	400W
Input-voltage range and frequency	100 to 240 VAC 50 – 60 Hz	DC: –40 to –72V
Power supply efficiency	80 Plus Silver	85 %
Input current	6A – 3A	13 A – 7.25 A
Output ratings	12V 33A	12 V 33.5 A
Output holdup time	20ms	2 ms
Power supply input receptacles	IEC 320 C14	Terminal block
Power cord rating	10A	15 A # 14 wire

[*] Will be supported in future release

Accessories, blanks, and rack-mount options

Table 14.   Accessories

Product number	Description
CAB-CON-USBRJ45	Cisco Micro USB to RJ-45 Console Adapter
Spares	
C8300-UCPE-FAN=	Cisco Catalyst 8300 Fan Tray Spare

Table 15.   Blanks

Product number	Description
C8300-PS-BLANK-1R	Cisco Catalyst 8300 1RU Power Supply Blank
C8300-NIM-BLANK	Cisco Catalyst 8300 NIM Blank
C8300-PIM-BLANK	Cisco Catalyst 8300 PIM Blank
C-M2-BLANK	Cisco Catalyst M.2 Disk Blank
C-E1S-BLANK	Cisco Catalyst E1.S Disk Blank
C-U2-BLANK	Cisco Catalyst U.2 2.5" Disk Blank

Product number	Description
Spares	
C8300-PS-BLANK-1R=	Cisco Catalyst 8300 1RU Power Supply Blank Spare
C8300-NIM-BLANK=	Cisco Catalyst 8300 NIM Blank Spare
C8300-PIM-BLANK=	Cisco Catalyst 8300 PIM Blank Spare
C-M2-BLANK=	Cisco Catalyst M.2 Disk Blank Spare
C-E1S-BLANK=	Cisco Catalyst E1.S Disk Blank Spare
C-U2-BLANK=	Cisco Catalyst U.2 2.5" Disk Blank Spare

Table 16.   Rack mounts

Product number	Description
C8300-RM-19-1R	Cisco Catalyst 8300 Rack Mount Kit – 19"
C8300-RM-23-1R	Cisco Catalyst 8300 Rack Mount Kit – 23"
C8300-D175-4PT1R	Cisco Catalyst 8300 Rack Mount Kit 4 Post – 17.5" 1RU
C8300-WM-1R	Cisco Catalyst 8300 Wall Mount Kit – 1RU
Spares	
C8300-RM-19-1R=	Cisco Catalyst 8300 Rack Mount Kit – 19" Spare
C8300-RM-23-1R=	Cisco Catalyst 8300 Rack Mount Kit – 23" Spare
C8300-UCPE-4PT=	Cisco Catalyst 8300 uCPE Rack Mount Kit 4 Post – 1RU Spare
C8300-WM-1R=	Cisco Catalyst 8300 Wall Mount Kit – 1RU Spare

Optics and transceivers modules

Find the full list of optics and transceivers [here](#).

Table 17.   1 Gbps Small Form-Factor Pluggable (SFP) transceiver options

Product number	Description
SR – 1 km	
GLC-SX-MMD	1GBASE-SX SFP, 550 / 1 km over duplex OM2 / OM3 fiber, extended temperature for use in short reach for data center and campus
LR – 10 km	
GLC-LH-SMD	1GBASE-LR SFP, 10 km over duplex SMF, extended temperature for use in aggregation and core applications for data center and campus

Table 18. 10 Gbps SFP Plus (SFP+) transceiver options

Product number	Description
SR – 1 km	
SFP-10G-SR	10GBASE-SR SFP, 300 / 400m over duplex OM3 / OM4 fiber for use in short reach for data center and campus
SFP-10G-SR-S	10GBASE-SR SFP, 300 / 400m over duplex OM3 / OM4 fiber for use in short reach for data center and campus
SFP-H10GB-ACU10M	Active copper cable, 10m for use in Top-of-Rack (ToR) server connections
SFP-H10GB-ACU7M	Active copper cable, 7m for use in ToR server connections
LR – 10 km	
SFP-10G-LR	10GBASE-LR SFP, 10 km over duplex SMF for use in aggregation and core applications for data center and campus
SFP-10G-LR-S	10GBASE-LR SFP, 10 km over duplex SMF for use in aggregation and core applications for data center and campus

Software features and requirements

Cisco Integrated Management Controller (CIMC) and BIOS are bundled with NFVIS. TACACS access is provided-for CIMC.

Cisco provides a single-vendor and complete end-to-end virtualized solution that includes:

- Range of NFV platforms, including this one, to match different throughput requirements
- Hypervisor operating system that enables virtualization
- Rich catalog of industry-leading VNFs (in VM and container form-factor including Kubernetes), such as the Cisco Catalyst 8000V virtualized router and Cisco ThousandEyes containers
- Cisco SD-WAN Manager orchestrator software

Cisco Network Functions Virtualization Infrastructure Software (NFVIS) hypervisor operating system software installed on these platforms enables an optimized virtualized infrastructure to host guest VNFs. With NFVIS you can natively run VNFs in VMs or a container form factor including Kubernetes. NFVIS also enables core capabilities like backup and restore, N+3 upgrade and rollback upon failure, native IPsec Tunnel and route-distribution/learning capability, sharing of IP between hypervisor and VNF.

Cisco Catalyst 8000V virtualized router VNF software that can be configured in SD-WAN mode or in traditional routing mode. For other VNFs from Cisco and other providers, see the NFVIS release notes.

Cisco SD-WAN Manager orchestrator software, which provides a centralized and single portal that can help you configure and manage all your Cisco Catalyst 8000V VNF instances AND all your NFV platforms enabled by NFVIS, including the provisioning, monitoring, and management of all the guest VNFs.

Table 19. Minimum software requirements

Product number	Minimum software requirements
C8300-UCPE-1N20	• Cisco NFVIS 4.12.1 • Cisco Catalyst 8000V 17.12.1a • Cisco SD-WAN Manager 20.12.1

Licensing

Cisco Catalyst 8300 Series Edge uCPE platforms are offered only with a mandatory subscription license for Cisco Catalyst 8000V Edge Software that is governed by Cisco DNA Software for SD-WAN and Routing licensing.

Cisco DNA Software subscriptions are common across SD-WAN and traditional routing deployments, giving customers the flexibility to consume the latest technology. All subscription tiers include Cisco Software Support Service (SWSS). Ordering a subscription requires a Smart Account/Virtual Account.

For more details refer to this licensing guide.

Customers who already have surplus Cisco DNA Software subscriptions acquired via a Cisco Enterprise Agreement or a Cisco Managed Services License Agreement or a Cisco Whole Portfolio Agreement are exempt from the requirement to include a new subscription when placing their platform order.

Mechanical specifications

Table 20. Mechanical specifications

Attribute	Specifications for C8300-UCPE-1N20
Dimensions (H x W x D)	1.73" (1RU) x 17.5" x 17.5"
Chassis weight	19 lbs; 8.61 kg
Input voltage	100 to 240 VAC DC: -40 to -72V
Operating temperatures	40C @ 10,000ft (long-term operating) 55C @ 6,000ft (Short-term per GR-63)
Storage temperatures	-40 to +150F (-40 to +70C)
Relative humidity operating, nonoperating, noncondensing	Ambient (noncondensing) operating: 5 to 85% Ambient (noncondensing) non-operating and storage: 5 to 95%
Altitude	Operational: 13,000ft (de-rate 1C/1000ft from 40C for altitudes over 10,000kft) Storage: 15,000kft

Safety and compliance

Table 21.   Safety and compliance

Description	Specifications
Safety certifications	IEC 62368-1 3rd: 2018 EN 62368-1:2020+A11:2020 UL 62368-1: 2021 CAN/CSA-C22.2 No. 62368-1-19 AS/NZS 62368.1:2018 UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1-07 Second Edition
EMC	• 47 CFR, Part 15 • ICES-003 Issue 7 • EN 55032 • CISPR 32 • CNS 15936 • KS C 9832 • NM EN 55032 • QCVN 118/BTTTT • VCCI-CISPR 32 • EN IEC 61000-3-2 • EN 61000-3-3 • KS C 9610-3-2 • KS C 9610-3-3 • NM EN 61000-3-2 • NM EN 61000-3-3 • EN 301 489-1 • EN 301 489-19 • EN 301 489-52 • KS X 3124 • KS X 3129 • QCVN 18/BTTTT • QCVN 86/BTTTT
EMC (Immunity)	• EN 55035 • CISPR 35 • KS C 9835 • NM EN 55035 • TCVN 7317 • EN 61000-6-1 • EN 301 489-1 • EN 301 489-19 • EN 301 489-52 • KS X 3124 • KS X 3129

Description	Specifications
	• QCVN 18/BTTTT
	• QCVN 86/BTTTT
EMC (ETSI/EN)	• EN 300 386

Services

Cisco Customer Experience support services for Catalyst 8000 platforms and Cisco DNA Software for SD-WAN and Routing.

This section discusses the Cisco support services available for Catalyst 8000 platforms and associated Cisco DNA Software for SD-WAN and Routing, as well as optional support service offers.

- **Catalyst 8000 platforms:** Cisco Solution Support is the default and recommended Cisco support service. However, Cisco Solution Support is not mandatory; it can be removed or replaced with another Cisco support service or partner service per the customer's preference.

- **Cisco DNA Software for SD-WAN and Routing:** Cisco Solution Support is the default Cisco support service. However, Cisco Solution Support is not mandatory; the customer may choose to use the Cisco Subscription Embedded Software Support included with the purchase of this software.

Note:

- When Solution Support is selected, it must be ordered on both the Catalyst 8000 platform and Cisco DNA Software for SD-WAN and Routing for complete customer entitlement to this premium support service.

- Customers with SD-WAN and Routing who have Solution Support or Cisco Subscription Embedded Software Support are entitled to maintenance releases and software updates for **Cisco DNA SD-WAN and Routing software only**. The support for the Catalyst 8000 platform's OS and network stack, along with OS updates, is covered by the support contract on the Catalyst 8000 platform.

Cisco Solution Support is a premium support purpose-built for today's multiproduct, multivendor network environments and provides:

- A primary point of contact centralizing support across a solution deployment

- Solution, product, and interoperability expertise

- No requirement for customers to isolate their issue to a product to open a case

- 30-minute service response objective for Severity 1 and 2 cases

- Prioritized case handling over product support cases

- Product support team coordination (Cisco and Solution Support Alliance Partners)

- Accountability for multiproduct, multivendor issue management from first call to resolution, no matter where the issue resides

Learn more about Cisco Solution Support at www.cisco.com/go/solutionsupport.

Cisco Subscription Embedded Software Support includes:

Access to support and troubleshooting via online tools and web case submission. Case severity or escalation guidelines are not applicable.

Cisco Technical Assistance Center (TAC) access 24 hours per day, 7 days per week to assist by telephone, or web case submission and online tools with application software use and troubleshooting issues.

Access to www.cisco.com, providing helpful technical and general information on Cisco products, as well as access to Cisco's online Software Center library.

Note:

- No additional products or fees are required to receive embedded support for Cisco DNA Software for SD-WAN and Routing. However, if using embedded support for this software, hardware support for the Catalyst 8000 platforms must be purchased separately, as Cisco Subscription Embedded Software Support does not cover hardware. In this case, Cisco Smart Net Total Care® Service is recommended for Catalyst 8000 platforms.

Product sustainability

Table 22. Cisco environmental sustainability information

Sustainability topic		Reference
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries, and packaging	WEEE Compliance
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Sustainability inquiries	Contact: csr_inquiries@cisco.com
Material	Product packaging weight and materials	Contact: environment@cisco.com

Ordering information

All orderable SKUs are mentioned above in their respective sections.

To place an order, visit the Cisco Commerce ordering page. To download software, visit the Cisco Software Download center.

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Cisco Capital® financing makes it easier to get the right technology to achieve your objectives, enable business transformation, and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services, and complementary third-party equipment in easy, predictable payments. Learn more.

Warranty

Cisco Catalyst 8300 Series Edge uCPE platforms come standard with a Cisco limited 1-year return-to-factory hardware warranty. For more information, refer to:
https://www.cisco.com/c/en/us/products/warranties/warranty-c99-744450.html.

For more information

- Cisco Catalyst 8200 Series Edge uCPE data sheet

- Cisco Enterprise Networking Compute System data sheet

- Cisco Enterprise NFV Infrastructure Software

- Cisco Catalyst 8000V Edge Software router data sheet

- Cisco Catalyst SD-WAN Manager orchestrator software

- Cisco Cloud Native Service-Chain with Kubernetes

- Cisco Enterprise NFV Open Ecosystem and Partner VNFs

- Cisco Commerce ordering

- Cisco Software Download center

Document history

Table 23.   Document history

Topic	Described in	Date
First version at launch	Whole document	November 27, 2023

Printed in USA   C78-3863907-00   09/23