

# Cisco Catalyst 8500 Series Edge Platforms

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The Cisco Catalyst 8500 Series Edge Platforms are high-performance cloud edge platforms designed for accelerated services, multi-layer security, cloud-native agility, and edge intelligence to accelerate your journey to cloud.



## Nomenclature Note

Catalyst 8500 Edge Platforms refer to C8500-12X and C8500-12X4QC

Catalyst 8500L Edge Platform refers to C8500L-8S4X

Catalyst 8500 Series Edge Platforms refer to Catalyst 8500 and Catalyst 8500L Edge Platforms together

## Foundation for Software-Defined WAN

Cisco Catalyst 8500 Series Edge Platforms (Catalyst 8500 and Catalyst 8500L) with Cisco IOS XE SD-WAN Software deliver Cisco’s secure, cloud-scale SD-WAN solution for aggregation sites. The Catalyst 8500 Edge Platforms feature the all-new third-generation Cisco Quantum Flow Processor (QFP), the Catalyst 8500 Series Edge Platforms are built for services from the ground up. The Catalyst 8500L Edge Platform features an x86 based platform architecture that is purpose built to continue delivering the same experience as an ASR1000 platform. The Catalyst 8500 Series Edge Platforms are compact 1RU devices with flexible interface options, including 1GE, 10GE, 40GE, and 100GE ports. Powered by Cisco IOS XE, fully programmable software architecture, and API support, these platforms can facilitate automation at scale to achieve zero-touch IT capability while migrating workloads to the cloud.

## Product overview

### Catalyst 8500 Edge Platform Product highlights

**Table 1.** Catalyst 8500 Edge Platform Product highlights

Product feature	Benefits and description
<b>All-new third-generation Quantum Flow Processor (QFP) ASIC</b>	<ul style="list-style-type: none"> <li>• Inline hardware-accelerated encryption for high-throughput IPsec and MACsec</li> <li>• High-performance routing and SD-WAN with services</li> </ul>
<b>IPsec</b>	<ul style="list-style-type: none"> <li>• Up to 2.5X higher IPsec throughput than 2nd Gen QFP devices</li> </ul>
<b>Multicore control processor</b>	<ul style="list-style-type: none"> <li>• Intel x86 CPU with 16 GB memory default (up to 64 GB memory) for high-speed control plane processes</li> </ul>
<b>Interface flexibility</b>	<ul style="list-style-type: none"> <li>• Options for 1GE, 10GE, 40GE, and 100GE ports</li> </ul>
<b>DRAM</b>	<ul style="list-style-type: none"> <li>• All Catalyst 8500 Edge Platforms have 16 GB default DRAM and can be upgraded to 32 GB and 64 GB for higher scale</li> </ul>

Product feature	Benefits and description
<b>SSD storage</b>	<ul style="list-style-type: none"> <li>• Default 32-GB eUSB for storage with optional 480-GB SSD upgrade for additional storage on the platform</li> </ul>
<b>Redundancy</b>	<ul style="list-style-type: none"> <li>• High-efficiency dual power supplies by default for power supply redundancy</li> <li>• All Catalyst 8500 Edge Platforms support software redundancy with 2 Cisco IOS processes running on a single device (IOS XE routing mode)</li> </ul>
<b>Form factor</b>	<ul style="list-style-type: none"> <li>• Compact 1RU form factor</li> </ul>
<b>Integrated security</b>	<ul style="list-style-type: none"> <li>• Hardware-anchored Secure Boot and Secure Unique Device Identification (SUDI) support for Plug and Play to verify the identity of the hardware and software</li> </ul>

**Table 2.** Catalyst 8500L Edge Platform Product highlights

Product feature	Benefits and description
<b>x86 Based Platform Architecture</b>	<ul style="list-style-type: none"> <li>• Advanced flow based forwarding reduces overhead for stateful features</li> <li>• Dynamic core allocation architecture that can leverage data plane cores for I/O and service plane as per-user configuration.</li> <li>• Higher performance routing and SD-WAN with services</li> </ul>
<b>IPsec</b>	<ul style="list-style-type: none"> <li>• Double the IPsec throughput compared to ASR1001-X (11Gbps vs 4.5Gbps for IMIX performance)</li> </ul>
<b>High Performance Control Plane</b>	<ul style="list-style-type: none"> <li>• Intel x86 CPU with multiple cores allocated to control plane with 16 GB memory default (up to 64 GB memory) for high-speed control plane processes</li> </ul>
<b>Interface flexibility</b>	<ul style="list-style-type: none"> <li>• Includes 1GE and 10GE ports</li> </ul>
<b>DRAM</b>	<ul style="list-style-type: none"> <li>• All Catalyst 8500 Edge Platforms have 16 GB default DRAM and can be upgraded to 32 GB and 64 GB for higher scale</li> </ul>
<b>Flash storage</b>	<ul style="list-style-type: none"> <li>• Default 32-GB eUSB for storage for additional storage on the platform</li> </ul>
<b>SSD Storage</b>	<ul style="list-style-type: none"> <li>• Optional SSD M.2 NVMe 2TB upgrade for additional storage on the platform</li> </ul>
<b>Redundancy</b>	<ul style="list-style-type: none"> <li>• High-efficiency dual power supplies by default for power supply redundancy</li> <li>• All Catalyst 8500 Edge Platforms support software redundancy with 2 Cisco IOS processes running on a single device (IOS XE routing mode)</li> </ul>
<b>Form factor</b>	<ul style="list-style-type: none"> <li>• Compact 1RU form factor</li> </ul>
<b>Integrated security</b>	<ul style="list-style-type: none"> <li>• Hardware-anchored Secure Boot and Secure Unique Device Identification (SUDI) support for Plug and Play to verify the identity of the hardware and software</li> </ul>

## Platform details

### Platforms and configurations

The C8500-12X4QC platform (Figure 1) allows for a maximum of 240GE ports to be enabled simultaneously. It offers:

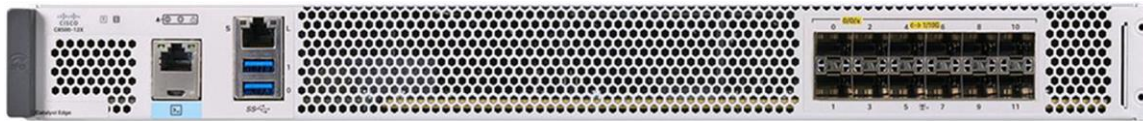
- 12x 1/10GE ports
- 2x 40GE ports
- 2x 40/100GE ports

The C8500-12X platform (Figure 2) offers 12x 1/10GE ports.

The C8500L-8S4X platform (Figure 3) offers 4x 1/10GE and 8x 1GE ports.



**Figure 1.**  
C8500-12X4QC



**Figure 2.**  
C8500-12X with 12x 1/10GE ports



**Figure 3.**  
C8500L-8S4X with 4x 1/10GE and 8x 1GE ports

Table 3 provides details on each platform's configurations and port density. Table 4 shows the maximum port configurations for the Cisco Catalyst C8500-12X4QC platform.

**Table 3.** Cisco Catalyst 8500 Series configurations and port density

Platform	Description	Max 1GE ports	Max 10GE ports	Max 40GE ports	Max 100GE ports
<b>C8500-12X4QC*</b>	12-port 1/10GE, 2-port 40/100GE, 2-port 40GE	12*	12*	4*	2*
<b>C8500-12X</b>	12-port 1/10GE	12	12	0	0
<b>C8500L-8S4X</b>	4-port 1/10GE, 8-port 1GE	12	4	0	0

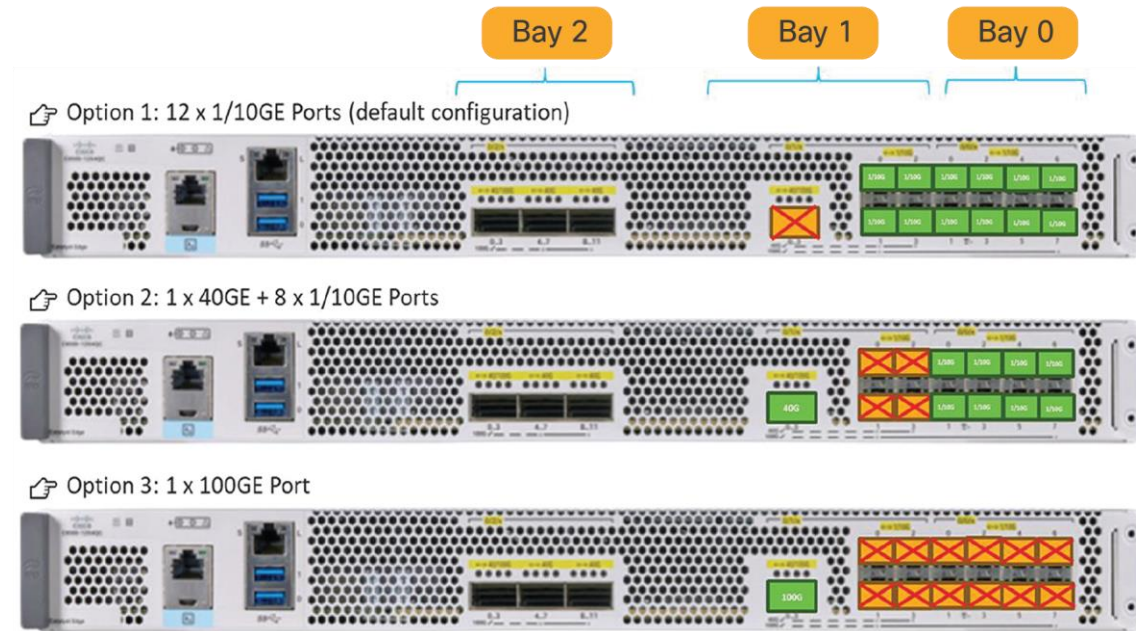
\*Up to 240GE of ports can be enabled simultaneously

**Table 4.** Maximum ports configurations for Cisco Catalyst C8500-12X4QC

Ports type	Configuration
Max 1 GE	12x1GE
Max 10 GE	12x10GE
Max 40 GE + 10 GE	4x40GE + 8x10GE
Max 100 GE	2x100GE*
Max 100 GE + 40 GE	1x100GE + 3x40GE
Max 100 GE + 40 GE + 10 GE	1x100GE + 1x40GE + 8x10GE
Max 100 GE + 10 GE	1x100GE + 12x10GE
Max 10 GE + 40 GE	12x10GE + 3x40GE

\*When Bay 1 is set up in 100GE mode, no other ports available in Bay 0 or Bay 1.

Figures 3 and 4 are a series of images that highlight the Cisco Catalyst C8500-12X4QC platform’s port options in each of its bays.



**Figure 4.** Bay 0 + bay 1 port options

Option 1: 3 x 40GE Ports (default configuration)



Option 2: 1 x 100GE Port



**Figure 5.**  
Bay 2 port options

**Table 4a.** Cisco controller mode (SD-WAN) performance specifications

	C8500-12X4QC	C8500-12X	C8500L-8S4X
SD-WAN IPsec Throughput (1400Bytes, clear text)	Up to 68Gbps	Up to 51Gbps	Up to 19Gbps
SD-WAN IPsec Throughput (IMIX*, clear text**)	Up to 31.9Gbps	Up to 22.6Gbps	Up to 8.6Gbps
SD-WAN Overlay Tunnels scale	8000	8000	8000

**Table 4b.** Cisco autonomous mode (non SD-WAN) performance specifications

	C8500-12X4QC	C8500-12X	C8500L-8S4X
IPv4 Forwarding Throughput (1400Bytes)	Up to 197Gbps	Up to 118Gbps	Up to 20 Gbps
IPsec Throughput (1400Bytes, clear text**)	Up to 135Gbps	Up to 84Gbps	Up to 19 Gbps
Number of IPsec SVTI Tunnels	4000	4000	4000

**Table 4c.** Cisco autonomous mode (non SD-WAN) system scalability

	C8500-12X4QC	C8500-12X	C8500L-8S4X
Number of ACLs per system	4000	4000	4000
Number of IPv4 ACEs per system	380K	47K	50K
Number of IPv4 Routes	4M w/ default 16GB	4M w/ default 16GB	3.5M w/ default 16GB
Number of IPv6 Routes	4M w/ default 16GB	4M w/ default 16GB	2.2M w/ default 16GB
Number of Queues	256K	256K	16K

	C8500-12X4QC	C8500-12X	C8500L-8S4X
Number of NAT Sessions	16M	12M	2M
Number of Firewall Sessions	6M	6M	2M
Number of VRFs	8000	8000	8000

\*IMIX is average packet size of 352 Bytes packet size

\*\*Based on clear text traffic measurement from traffic generator

## Overall platform benefits

### Accelerated services with Cisco Software-Defined 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. Cisco Catalyst 8000 Series Edge Platforms 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 and cloud controllers.

#### Application optimization

Ensure that SD-WAN networks meet Service-Level Agreements (SLAs) and maintain strong performance, even if network problems occur. With multi-cloud access, you can accelerate your SaaS applications with a simple template push from the SD-WAN controller.

#### Multi-layer security

You can now move your traditional and complex WAN networks to a more agile software-defined WAN with integrated security. The Cisco Catalyst 8500 Series Edge Platforms feature on-premises and cloud-based security options.

#### Application visibility

Applications and users are more distributed than ever, and the internet has effectively become the new enterprise WAN. As organizations continue to embrace internet, cloud, and SaaS, network and IT teams are challenged to deliver consistent and reliable connectivity and application performance over networks and services they don’t own or directly control.

The Catalyst 8500 Series Edge Platforms are integrated with Cisco ThousandEyes internet and cloud intelligence. IT managers now have expanded visibility, including hop-by-hop analytics, into network underlay, proactive monitoring of SD-WAN overlay, and performance measurement of SaaS applications. This granular visibility ultimately lowers the Mean Time to Identification of Issues (MTTI) and accelerates resolution time.

#### Cloud-native agility with programmable software architecture

Cisco continues to offer a feature-rich traditional IOS XE routing stack on the Cisco Catalyst 8000 Series Edge Platforms. IP Routing, IPSec, Quality of Service (QoS), firewall, Network Address Translation (NAT), Network-Based Application Recognition (NBAR), Flexible NetFlow (FNF), and many other features are part of Cisco IOS XE, a fully programmable software architecture with API support and a wide variety of protocols and configurations. With an integrated software image and a single binary file, you can now choose between Cisco IOS XE SD-WAN and Cisco IOS XE. And easily move from one to the other when you choose to do so.



## 5G-ready

The Cisco Catalyst 8500 Series Edge Platforms are built for future 5G networks. These platforms support external cellular gateway modules with LTE/5G capability for improved throughputs and latency.

## Compact form factor

The Cisco Catalyst 8500 Series Edge platforms feature compact 1RU platforms with rich interface options, including 1G, 10G, 40G, and 100G ports. Featuring the highly efficient third-generation QFP, the Cisco Catalyst 8500 Series Edge Platforms are built without compromising on performance and ports.

## Memory, storage, and accessory options

**Table 5.** Cisco Catalyst 8500 Series memory, storage, and accessory options

Product number	Description
MEM-C8500-32GB	Cisco C8500 32 GB memory
MEM-C8500-64GB	Cisco C8500 64 GB memory
SSD-M2SATA-480G	Cisco C8500 SSD M.2 SATA 480 GB
C8500-ACCKIT-19	Cisco Catalyst 8500 Edge accessory kit - 19 inches
C8500-ACCKIT-23	Cisco Catalyst 8500 Edge accessory kit - 23 inches
C8500-4PT-KIT	Cisco Catalyst 8500 Edge accessory kit - 4-post kit

**Table 6.** Cisco Catalyst 8500L Edge Platform memory, storage, and accessory options

Product number	Description
MEM-C8500L-32GB	Cisco C8500L 32 GB memory
MEM-C8500L-64GB	Cisco C8500L 64 GB memory
SSD-M2NVME-2T	Cisco C8500L SSD M.2 NVMe 2TB
C8500L-ACCKIT-19	Cisco Catalyst 8500L Edge accessory kit - 19 inches
C8500L-ACCKIT-23	Cisco Catalyst 8500L Edge accessory kit - 23 inches
C8500L-4PT-KIT	Cisco Catalyst 8500L Edge accessory kit - 4-post kit

## Optics and transceivers modules

A full list of optics and transceivers is available at: <https://tmgmatrix.cisco.com/?si=C8500>

## Resiliency and high availability

Platform redundancy is critical, as any downtime has direct impact to a customer's business. The Catalyst 8500 Series Edge Platforms ship with high-efficiency dual power supplies by default for power supply redundancy. All Catalyst 8500 Edge Platforms support software redundancy with two IOS XE processes running on a single device (IOS XE routing mode) for additional control-plane resiliency.

## Power supplies

**Table 7.** Cisco Catalyst 8500 Series power supply specifications

Power supply feature	PWR-CH1-750WACR	PWR-CH1-950WDCR
Power maximum rating	750W	950W
Input-voltage range and frequency	85 to 264 VAC 47 to 63 Hz	DC: -40 to -72V; -48V nominal
Power supply efficiency	80 Plus Platinum	86%
Input current	9.4 A to 3.0 A	27.6 A to 15.3 A (23 A)
Output ratings	12 V 63 A	12 V 79 A
Output holdup time	20 ms	4 ms
Power supply input receptacles	IEC 320 C14	Amphenol FXTH series 2 terminal block
Power cord rating	10 A	#10 wire 30 A

**Table 8.** Cisco Catalyst 8500L Edge Platform power supply specifications

Power supply feature	PWR-CH1-400WAC	PWR-CH1-400WDC	PWR-CC1-400WHV
Power maximum rating	424W	400W	500W
Input-voltage range and frequency	85 to 264 Vac 47 to 63 Hz	Vin, min = -40 Vdc Vin, nom = -54 Vdc Vin, max = -72 Vdc	85 to 305 Vac 47 to 63 Hz 192 to 400 Vdc
Power supply efficiency	85% @ 20% load 89% @ 50% load 85% @ 100% load	85% @ 20% load 88% @ 50% load 85% @ 100% load	90% @ 20% load 94% @ 50% load 91% @ 100% load

Power supply feature	PWR-CH1-400WAC	PWR-CH1-400WDC	PWR-CC1-400WHV
<b>Input current</b>	<3A @ 200 Vac <6A @ 100 Vac	<8A @ -60 Vdc <15A @ -48 Vdc	<7A @ 100 Vac <2.1A @ 277 Vac  <3A @ 240 Vdc <1.5A @ 380 Vdc
<b>Output ratings</b>	400W	400W	500W
<b>Output holdup time</b>	T,vout_holdup = 20 ms T,pw_ok_holdup = 5 ms	T,vout_holdup = 8 ms T,pw_ok_holdup = 2 ms	T,vout_holdup = 20 ms T,pw_ok_holdup = 20 ms
<b>Power supply input receptacles</b>	IEC 320 Style	TBD	Saf-D-Grid, 2006 series
<b>Power cord rating</b>	TBD	TBD	TBD

**RFID tags:** Catalyst 8500 Series Edge Platforms have an embedded RFID tag that holds Serial Number and Product ID for easy asset and inventory management using commercial RFID readers.

The RFID tag is external and can be easily removed if needed or can be unselected at the time of ordering.

## Software requirements

**Table 9.** Minimum software requirements for Cisco Catalyst 8500 Series Edge Platforms

Part number	Description	Minimum software requirement
<b>C8500-12X4QC</b>	Cisco Catalyst 8500 Series 12-port SFP+, 2-port QSFP+, 2-port QSPF28	Cisco IOS XE Software Release 17.3.2
<b>C8500-12X</b>	Cisco Catalyst 8500 Series 12-port SFP+	Cisco IOS XE Software Release 17.3.2
<b>C8500L-8S4X</b>	Cisco Catalyst 8500 Series 12-port SFP+, 8x1GE,4x10GE	Cisco IOS XE Software Release 17.4.1a

**Table 10.** ThousandEyes requirements

Feature	Description
<b>Cisco ThousandEyes</b>	ThousandEyes is natively integrated with eligible Catalyst 8500 Series Edge Platforms having greater than 8 GB DRAM and 8 GB bootflash/storage. Additional memory and storage may be necessary for concurrently running the ThousandEyes agent with containerized SD-WAN security services.

**Table 11.** Software features and protocols for autonomous mode

Feature	Description
<b>Protocols</b>	IPv4, IPv6, static routes, Routing Information Protocol Versions 1 and 2 (RIP and RIPv2), Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Border Gateway Protocol (BGP), BGP Router Reflector, Intermediate System-to-Intermediate System (IS-IS), Multicast Internet Group Management Protocol Version 3 (IGMPv3), Protocol Independent Multicast Sparse Mode (PIM SM), PIM Source-Specific Multicast (SSM), Resource Reservation Protocol (RSVP), Cisco Discovery Protocol, Encapsulated Remote Switched Port Analyzer (ERSPAN), Cisco IOS IP Service-Level Agreements (IPSLA), Call Home, Cisco IOS Embedded Event Manager (EEM), Internet Key Exchange (IKE), Access Control Lists (ACL), Ethernet Virtual Connections (EVC), Dynamic Host Configuration Protocol (DHCP), Frame Relay, DNS, Locator ID Separation Protocol (LISP), Hot Standby Router Protocol (HSRP), RADIUS, Authentication, Authorization, and Accounting (AAA), Application Visibility and Control (AVC), Distance Vector Multicast Routing Protocol (DVMRP), IPv4-to-IPv6 Multicast, Multiprotocol Label Switching (MPLS), Layer 2 and Layer 3 VPN, IPsec, MACsec Layer 2 Tunneling Protocol Version 3 (L2TPv3), Bidirectional Forwarding Detection (BFD), IEEE 802.1ag, and IEEE 802.3ah
<b>High Availability</b>	Software redundancy with dual IOS, Box-to-Box application-level redundancy
<b>Encapsulations</b>	Generic Routing Encapsulation (GRE), Ethernet, 802.1q VLAN, Point-to-Point Protocol (PPP), Multilink Point-to-Point Protocol (MLPPP), High-Level Data Link Control (HDLC), and PPP over Ethernet (PPPoE)
<b>Traffic management</b>	Quality of Service (QoS), Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Hierarchical QoS, Policy-Based Routing (PBR), Performance Routing (Pfr), and Network-Based Application Recognition (NBAR)
<b>Cryptographic algorithms</b>	Encryption: DES, 3DES, AES-128, or AES-256 (in CBC and GCM modes) Authentication: RSA (748/1024/2048 bit), ECDSA (256/384 bit) Integrity: MD5, SHA, SHA-256, SHA-384, SHA-512

**Table 12.** Software features and protocols for controller mode

Feature	Description
<b>Core Features</b>	IPv4, IPv6, static routes, Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Border Gateway Protocol (BGP), Overlay Management Protocol (OMP), Application Aware Routing (AAR), Traffic Engineering, Service Insertion, zero-trust, whitelisting, tamper-proof module, DTLS/TLS, IPsec, classification, prioritization, low latency queuing, remarking, shaping, scheduling, policing, mirroring, Multicast IPv4 Support, Service advertisement and insertion policy, SNMP, NTP, DNS client, Dynamic Host Configuration Protocol (DHCP), DHCP client, DHCP server, DHCP relay, config archival, syslog, SSH, SCP, Cflowd v10 IPFIX export, IPv6 for transport-side, VRRP, MPLS, NAT (DIA, Service-side, static, overload/PAT, NAT64, etc), NAT pools, split DNS, Access Control Lists (ACL), Bidirectional Forwarding Detection (BFD), Netconf over SSH, CLI, NTP server support, BFD with service-side BGP, BGP community propagation to OMP, 6 SLA classes for AAR, Trustsec/SDA (Inline SGT propagation), custom app with SD-AVC, multicast AAR, dynamic on-demand tunnels, PIM-SM, OSPFv3, route policies, Multi-VRF support
<b>Encapsulations</b>	Generic Routing Encapsulation (GRE), Ethernet, 802.1q VLAN
<b>Application Experience</b>	Quality of Service (QoS), Forward Error Correction (FEC), COS Marking, Weighted Random Early Detection (WRED), Hierarchical QoS, Policy-Based Routing (PBR), Network-Based Application Recognition (NBAR), Software Defined Application Visibility and Control (SD-AVC), per tunnel QoS, Cloud onRamp for SaaS, Enhanced Office 365 traffic steering, Direct Internet Access, Flexible Netflow (FnF)

Feature	Description
<b>Cryptographic Algorithms</b>	Encryption: AES-256 (in CBC and GCM modes), Internet Key Exchange (IKE), Cisco PKI Authentication: AAA, RSA (2048 bit), ESP-256-CBC, HMAC-SHA1, ECDSA (256/384 bit) Integrity: SHA-1, SHA-2
<b>Security</b>	Built-in end-to-end Segmentation (VPNs), ZBFW, PKI, DNS Layer Security, Security Internet Gateway (Umbrella, Zscaler), ALG for ZBFW

## Specifications

### Mechanical specifications

**Table 13.** Mechanical specifications for the Cisco Catalyst Series 8500 Edge Platforms

Description	Specification		
	C8500-12X4QC	C8500-12X	C8500L-8S4X
<b>Dimensions (H x W x D)</b>	1.73 in. x 17.50 in. x 18.46 in.	1.73 in. x 17.50 in. x 18.46 in.	1.73 x 17.50 in x 16.25 in
<b>Rack Units (RU)</b>	1RU	1RU	1RU
<b>Chassis weight with 2x AC power supplies and fan tray</b>	20.75 lbs	20.25 lbs	17 lbs
<b>Input voltage</b>	AC: 85 to 264 VAC DC: -40 to 72V; 48V nominal		AC: 100 to 240 VAC DC: -40 to -60 VDC HVAC: 100 to 277 VAC HVDC: 240 to 380 VDC
<b>Operating temperature</b>	32 to 104° F (0 to 40° C)		
<b>Storage temperature</b>	-40 to 150° F (-40 to 70° C)		
<b>Relative humidity operating and nonoperating noncondensing</b>	Ambient (noncondensing) operating: 10 to 85% Ambient (noncondensing) nonoperating and storage: 5 to 95%		
<b>NEBS criteria levels</b>	GR-1089 and GR-63		
<b>Altitude</b>	-500 to 10,000 feet (152 to 3048 meters)		
<b>Mean Time Between Failures (MTBF)</b>	146,700 hours	156,200 hours	240,200 hours

## Safety and compliance

**Table 14.** Safety and compliance specifications for the Cisco Catalyst Series 8500 Edge Platforms

Description	Specification
<b>Safety certifications</b>	<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>
<b>EMC (Emissions)</b>	47 CFR Part 15 Class A ICES 003 Class A AS/NZS CISPR 32 Class A CISPR 22/CISPR 32 Class A EN55022/EN55032 Class A VCCI Class A CNS-13438 Class A KN32 Class A IEC/EN 61000-3-2: Power Line Harmonics IEC/EN 61000-3-3: Voltage Fluctuations and Flicker
<b>EMC (Immunity)</b>	IEC/EN-61000-4-2: Electrostatic Discharge Immunity IEC/EN-61000-4-3: Radiated Immunity IEC/EN-61000-4-4: Electrical Fast Transient Immunity IEC/EN-61000-4-5: Surge AC, DC, and Signal Ports IEC/EN-61000-4-6: Immunity to Conducted Disturbances IEC/EN-61000-4-11: Voltage DIPS, Short Interruptions, and Voltage Variations KN35
<b>EMC (ETSI/EN)</b>	EN300 386: Telecommunications Network Equipment (EMC) EN55022: Information Technology Equipment (Emissions) EN55032: Multimedia Equipment (Emissions) EN55024: Information Technology Equipment (Immunity) EN55035: Multimedia Equipment (Immunity) EN50082-1/EN-61000-6-1: Generic Immunity Standard

## Licensing

All Cisco Catalyst 8500 Series Edge Platforms are offered only with a Cisco DNA Software subscription. Only Cisco DNA Advantage and Cisco DNA Premier are available for the Cisco Catalyst 8500 Series Edge Platforms.

For more details, refer to this [C8500 ordering guide](#):

### Cisco Smart Licensing

Cisco Smart Licensing is a flexible licensing model that provides you with an easier, faster, and more consistent way to purchase and manage software across the Cisco portfolio and across your organization. And it's secure – you control what users can access. With Smart Licensing you get:

- **Easy Activation:** Smart Licensing establishes a pool of software licenses that can be used across the entire organization—no more PAKs (Product Activation Keys).
- **Unified Management:** My Cisco Entitlements (MCE) provides a complete view into all of your Cisco products and services in an easy-to-use portal, so you always know what you have and what you are using.
- **License Flexibility:** Your software is not node-locked to your hardware, so you can easily use and transfer licenses as needed.

To use Smart Licensing, you must first set up a Smart Account on Cisco Software Central ([software.cisco.com](https://software.cisco.com)).

For a more detailed overview on Cisco Licensing, go to [cisco.com/go/licensingguide](https://cisco.com/go/licensingguide)

### Cisco ThousandEyes

A valid ThousandEyes agent license is required to activate the ThousandEyes agent. Existing ThousandEyes subscriptions can be leveraged on eligible Catalyst 8500 Series platforms. Additional ThousandEyes subscription information can be found [here](#).

## Product Sustainability

**Table 15.** Cisco Environmental Sustainability Information

Sustainability Topic		Reference
General	Information on product-material-content laws and regulations	<a href="#">Materials</a>
	Information on electronic waste laws and regulations, including our products, batteries and packaging	<a href="#">WEEE Compliance</a>
	Information on product takeback and resuse program	<a href="#">Cisco Takeback and Reuse Program</a>
	Sustainability Inquiries	Contact: <a href="mailto:csr_inquiries@cisco.com">csr_inquiries@cisco.com</a>
Material	Product packaging weight and materials	Contact: <a href="mailto:environment@cisco.com">environment@cisco.com</a>

## Ordering information

**Table 16.** Orderable SKUs for the Cisco Catalyst 8500 Series Edge Platforms

Product number	Product description
<b>L-DNA-C8500</b>	Cisco C8500 subscription
<b>C8500-12X4QC</b>	Cisco C8500-12X4QC Edge Platform
<b>C8500-12X</b>	Cisco C8500-12X Edge Platform
<b>PWR-CH1-750WACR</b>	Cisco C8500 750W AC Power
<b>PWR-CH1-750WACR=</b>	Cisco C8500 750W AC Power, Spare
<b>PWR-CH1-950WDCR</b>	Cisco C8500 950W DC Power
<b>PWR-CH1-950WDCR=</b>	Cisco C8500 950W DC Power, Spare
<b>SSD-M2SATA-480G</b>	Cisco C8500 SSD M.2 SATA 480GB
<b>SSD-M2SATA-480G=</b>	Cisco C8500 SSD M.2 SATA 480GB, Spare
<b>MEM-C8500-16GB=</b>	Cisco C8500 16GB Memory, Spare
<b>MEM-C8500-32GB</b>	Cisco C8500 32GB Memory
<b>MEM-C8500-32GB=</b>	Cisco C8500 32GB Memory, Spare
<b>MEM-C8500-64GB</b>	Cisco C8500 64GB Memory
<b>MEM-C8500-64GB=</b>	Cisco C8500 64GB Memory, Spare
<b>C8500-FAN-1R=</b>	Cisco C8500 Fan Tray, 1RU, Spare
<b>C8500-ACCKIT-19</b>	Cisco C8500 Accessory Kit - 19"
<b>C8500-ACCKIT-19=</b>	Cisco C8500 Accessory Kit - 19", Spare
<b>C8500-ACCKIT-23</b>	Cisco C8500 Accessory Kit - 23"
<b>C8500-ACCKIT-23=</b>	Cisco C8500 Accessory Kit - 23", Spare
<b>C8500-4PT-KIT</b>	Cisco C8500 Accessory Kit - 4 Post Kit
<b>C8500-4PT-KIT=</b>	Cisco C8500 Accessory Kit - 4 Post Kit, Spare
<b>C8500-RFID-1R</b>	Cisco C8500 RFID - 1RU



**Table 17.** Orderable SKUs for the Cisco Catalyst 8500L Edge Platform

Product number	Product description
<b>L-DNA-C8500</b>	Cisco C8500 subscription
<b>C8500L-8S4X</b>	Cisco C8500L-8S4X Edge Platform
<b>PWR-CH1-400WAC</b>	Cisco C8500L 400W AC Power
<b>PWR-CH1-400WAC=</b>	Cisco C8500L 400W AC Power, Spare
<b>PWR-CH1-400WDCR</b>	Cisco C8500L 400W DC Power
<b>PWR-CH1-400WDC=</b>	Cisco C8500L 400W DC Power, Spare
<b>PWR-CC1-400WHV</b>	Cisco C8500L 400W HVDC Power
<b>PWR-CC1-400WHV=</b>	Cisco C8500L 400W HVDC Power, Spare
<b>MEM-C8500L-16GB=</b>	Cisco C8500L 16GB Memory, Spare
<b>MEM-C8500L-32GB</b>	Cisco C8500L 32GB Memory
<b>MEM-C8500L-32GB=</b>	Cisco C8500L 32GB Memory, Spare
<b>MEM-C8500L-64GB</b>	Cisco C8500L 64GB Memory
<b>MEM-C8500L-64GB=</b>	Cisco C8500L 64GB Memory, Spare
<b>SSD-M2NVME-2T</b>	Cisco C8500L SSD M.2 NVMe 2TB
<b>SSD-M2NVME-2T=</b>	Cisco C8500L SSD M.2 NVMe 2TB, Spare
<b>C8500L-FAN-1R=</b>	Cisco C8500L Fan Tray, 1RU, Spare
<b>C8500L-ACCKIT-19</b>	Cisco C8500L Accessory Kit - 19"
<b>C8500L-ACCKIT-19=</b>	Cisco C8500L Accessory Kit - 19", Spare
<b>C8500L-ACCKIT-23</b>	Cisco C8500L Accessory Kit - 23"
<b>C8500L-ACCKIT-23=</b>	Cisco C8500L Accessory Kit - 23", Spare
<b>C8500L-4PT-KIT</b>	Cisco C8500L Accessory Kit - 4 Post Kit
<b>C8500L-4PT-KIT=</b>	Cisco C8500L Accessory Kit - 4 Post Kit, Spare
<b>C-RFID-1R</b>	Cisco Catalyst 8000 Edge RFID - 1RU

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## 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.
- SD-WAN and Routing, with both Solution Support or Cisco Subscription Embedded Software Support, customers 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 <https://www.cisco.com/go/solutionsupport>.

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## 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 <https://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.

## Warranty

Cisco Catalyst 8500 Series Edge Platform 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>.

## Cisco Capital

### Flexible payment solutions to help you achieve your objectives

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](#).

## Document history

**Table 18.** Document history

New or Revised Topic	Described In	Date
Added Cisco C8500L SSD M.2 NVMe 2TB	<a href="#">Table 2</a> , <a href="#">6</a> and <a href="#">15</a>	12/7/2021
Added Document History	<a href="#">Table 17</a>	12/7/2021
Added Product Sustainability	<a href="#">Table 15</a>	12/7/2021
Removed MEM-C8500L-16GB as an option, default memory	<a href="#">Table 7</a> and <a href="#">Table 17</a>	12/7/2021
Added reference for ThousandEyes agent hosting support	Platform benefits, Software, Licensing	12/4/2022

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