

Overview

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.

Quick Specs

Table 1 shows the Quick Specs.

Part number	C8500-12X
Description	Cisco Catalyst 8500 Series 12-port SFP+
IPsec	Up to 2.5X higher IPsec throughput than 2nd Gen QFP devices
Multicore control processor	Intel x86 CPU with 16 GB memory default (up to 64 GB memory) for high-speed control plane processes
Interface flexibility	Options for 1GE, 10GE, 40GE, and 100GE ports
DRAM	16 GB default DRAM and can be upgraded to 32 GB and 64 GB for higher scale
SSD storage	Default 32-GB eUSB for storage with optional 480-GB SSD upgrade for additional storage on the platform
Form factor	Compact 1RU form factor

Product Details

Figure 1 shows the appearance of the C8500-12X.



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.

• 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.

Compare to Similar Items

Table 2 shows the comparison.

Product Code	C8500-12X	C8500-12X4QC	C8500L-8S4X
Product Description	Cisco Catalyst 8500 Series 12-port SFP+	Cisco Catalyst 8500 Series 12-port SFP+, 2-port QSFP+, 2-port QSPF28	Cisco Catalyst 8500 Series 12-port SFP+, 8x1GE,4x10GE
Port density	12-port 1/10GE	12-port 1/10GE, 2-port 40/100GE, 2-port 40GE	4-port 1/10GE, 8-port 1GE
Max 10GE ports	12	12	4
SD-WAN IPsec Throughput (1400Bytes, clear text)	Up to 51Gbps	UP to 68Gbps	Up to 19Gbps
SD-WAN IPsec Throughput (IMIX*, clear text**)	Up to 22.6Gbps	Up to 31.9Gbps	Up to 8.6Gbps
SD-WAN Overlay Tunnels scale	8000	8000	8000

Get More Information

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Specification

C8500-12X Specification	
Description	Cisco Catalyst 8500 Series 12-port SFP+
Port density	12-port 1/10GE
Max 1GE ports	12
Max 10GE ports	12
Max 40GE ports	0
Max 100GE ports	0
SD-WAN IPsec Throughput (1400Bytes, clear text)	Up to 51Gbps
SD-WAN IPsec Throughput (IMIX*, clear text**)	Up to 22.6Gbps
SD-WAN Overlay Tunnels scale	8000
IPv4 Forwarding Throughput (1400Bytes)	Up to 118Gbps
IPsec Throughput (1400Bytes, clear text**)	Up to 84Gbps

Number of IPsec SVTI Tunnels	4000
Number of ACLs per system	4000
Number of IPv4 ACEs per system	47K
Number of IPv4 Routes	4M w/ default 16GB
Number of IPv6 Routes	4M w/ default 16GB
Number of Queues	256K
Number of NAT Sessions	12M
Number of Firewall Sessions	6M
Number of VRFs	8000
Mechanical specifications	
Dimensions (H x W x D)	1.73 in. x 17.50 in. x 18.46 in.
Rack Units (RU)	1RU
Input voltage	AC: 85 to 264 VAC DC: -40 to 72V; 48V nominal
Operating temperature	32 to 104°F (0 to 40°C)
Storage temperature	-40 to 150°F (-40 to 70°C)

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