

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

C8500-20X6C

Cisco Network Hardware Specification, Availability and Quote Reference

| | |
|----------------------|-------------------------------------------|
| Product Model | C8500-20X6C |
| Document Type | Product Datasheet |
| Condition | Brand New, Original and Verifieded |
| Supplier | Layer23-Switch.com |

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C8500-20X6C Datasheet



The Cisco C8500-20X6C datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the C8500-20X6C and integrate it into enterprise or service provider networks with confidence.

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Key Features

Ultra-high throughput for large-scale SD-WAN

Provides up to 2 Tbps system capacity with a mix of 20 × 40/100GE and 6 × 10GE ports, delivering reliable performance for hyperscale aggregation, data centers, and service provider cores.

Flexible interface density

Combines QSFP28 and SFP+ ports to support both 10G and 40/100G connections, allowing seamless migration and interoperability across multiple WAN and data center environments.

Integrated multilayer security

Incorporates 256-bit WAN MACsec encryption, zone-based firewall, IPS, URL filtering, malware defense, and secure boot, ensuring zero-trust protection from edge to backbone.

Cloud-ready with dynamic core allocation

Powered by an x86-based SoC with flexible CPU core distribution between data plane and service plane, enabling scalable SD-WAN services and containerized applications at high speeds.

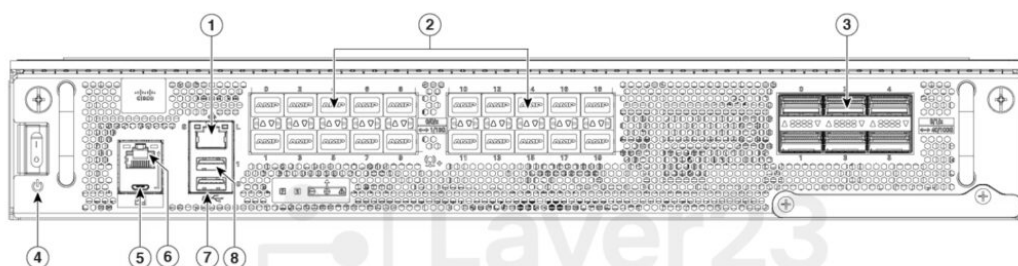
Carrier-grade resilience

Offers redundant AC/DC power supply options, hot-swappable fans, hardware root of trust, and trustworthy solutions 2.0 for continuous uptime in mission-critical deployments.

Compact yet modular 1RU platform

Supports up to 128 GB DRAM and multi-terabyte NVMe SSD storage, providing both density and expandability for enterprises and carriers seeking high-performance routing with future-proof investment protection.

C8500-20X6C Front View



| | | | |
|---|----------------------------|---|-------------------|
| 1 | Management Interface RJ-45 | 5 | Micro-USB Console |
| 2 | Bay 0 | 6 | Console RJ-45 |
| 3 | Bay 1 | 7 | USB 0 |
| 4 | Power switch | 8 | USB 1 |

Specification

| Parameter | Specification | Parameter | Specification |
|-------------------------------------|-------------------------------------------|------------------------------------|------------------------------------------------|
| Model | C8500-20X6C (Catalyst 8500 Edge Platform) | Form factor | 3RU; 5.22 × 17.25 × 26.85 in; 75-77.5 lb (AC) |
| Interfaces | 20 × 1/10GE SFP+; 6 × 40/100GE QSFP | Max simultaneous ports | All interfaces (total 800 Gbps) can be enabled |
| Controller-mode SD-WAN IPsec (IMIX) | Up to 100 Gbps | Controller-mode IPsec (1400-byte) | Up to 350 Gbps |
| SD-WAN overlay tunnels | 8000 (up to 10000 per note) | Autonomous IPv4 forwarding (1400B) | Up to 500 Gbps |

| Parameter | Specification | Parameter | Specification |
|--------------------------|-------------------------|---------------------------|----------------------------------------------------------------------|
| Autonomous IPsec (1400B) | Up to 400 Gbps | IPsec SVTI tunnels (auto) | 4000 |
| DRAM (default / max) | 16 GB / 64 GB | Bootflash (eUSB) | 16G default; 32G option |
| SSD option | M.2 NVMe up to 2 TB | Redundancy | High-efficiency dual PSUs; software redundancy (two IOS processes) |
| Security / trust | Secure Boot, SUDI | Minimum software | Cisco IOS XE 17.10.1 |
| Operating temperature | 0 to 40°C (32 to 104°F) | Humidity | Operating 10-85% (non-condensing); storage 5-95% |
| Acoustics (typ./max.) | 63.3 dBA / 79.3 dBA | Notes | Platform highlights include inline hardware-accelerated crypto (QFP) |

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