

QUANT 9500 ENTERPRISE ETHERNET SWITCH SERIES



Q-EP-9500-48P-L2-4G-R

PRODUCT OVERVIEW

The **Quant 9500 Series Layer 2+** Managed Ethernet Switches deliver high-performance, secure, and intelligent connectivity designed for enterprise, education, healthcare, and video-surveillance network infrastructures.

Based on a high-speed non-blocking architecture, the 9500 Series integrates 48 Gigabit Ethernet ports and 4 dedicated Gigabit SFP uplinks, providing a total switching capacity of 104 Gbps with wire-speed forwarding and minimal latency.

Engineered for performance and reliability, the 9500 Series supports comprehensive Layer 2 and Layer 2+ features including VLAN segmentation, link aggregation, loop protection, QoS prioritization, and ACL-based traffic control. Optional IPv4 static routing capabilities simplify inter-VLAN communication and enable cost-effective network segmentation without requiring Layer 3 core devices.

Built with energy-efficient hardware, redundant power input, and a metal rack-mount enclosure, the Quant 9500 ensures stable operation in enterprise environments 24 × 7. It provides comprehensive management options including Web GUI, CLI, SNMP v1/v2/v3, HTTPS, and ONV-NMS for centralized administration and monitoring.

With its high port density, robust security, and carrier-grade reliability, the Quant 9500 Series is an ideal choice for deployment at the access or aggregation layer of enterprise networks requiring high availability and scalability.

PRODUCT FEATURE

- **High-Performance Gigabit Access**
 - 48 × 10/100/1000 Base-T ports + 4 × 100/1000 Base-X SFP uplinks
 - Wire-speed forwarding for data, voice and video applications
- **Advanced Layer 2+/Static Routing**
 - IEEE 802.1Q VLAN (4 K), QinQ, and protocol-based VLAN
 - IPv4 static routing and default routes for segmented traffic flows
 - LACP and static link aggregation up to 26 groups
- **Security and Access Control**
 - IEEE 802.1X port authentication with RADIUS integration
 - IP-MAC-Port-VLAN binding and ACL-based filtering (L2)
 - Broadcast storm control and port isolation for edge protection

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PRODUCT FEATURE

- QoS and Multicast Optimization**
 8 hardware queues per port with SP, WRR and WFQ scheduling
 802.1p / DSCP priority marking for voice and video traffic
 IGMP Snooping v1/v2/v3 and multicast VLAN registration
- Redundancy and Reliability**
 STP, RSTP and ERPS (G.8032) link protection (< 50 ms recovery)
 Redundant internal power and surge protection for 24 × 7 uptime
 Galvanized metal housing for industrial-grade durability
- Smart Network Management**
 Web GUI, CLI (Telnet/SSH), SNMP v1/v2/v3, HTTPS/SSH access
 LLDP and ONV-NMS support for topology discovery and control
 RMON statistics and real-time port monitoring

TECHNICAL SPECIFICATION

Model	Downlink PoE Ports	Uplink Ports	CPU	Network Protocol	DRAM	FLASH
Connectivity						
Q-EP-9500-48P-L2-4G-R	48 × 10/100/1000 Base-T RJ45	4 × 100/1000 Base-X SFP	750MHz	IEEE 802.3af/at	1G	256M

- Supports multi-mode (550 m) and single-mode (20 km typical) fiber SFP modules with DDM monitoring.

Model	Switching Capacity	Forwarding Rate	MAC Address Table	Buffer Memory	Forwarding Mode	Input Voltage
Performance and Efficiency						
Q-EP-9500-48P-L2-4G-R	104Gbps	7738Mpps	16 K	12M	Store-and-forward	60 W

- Redundant Power Design — Continuous operation under voltage fluctuations or failure.
- Rapid Link Recovery — ERPS (G.8032) and RSTP enable sub-50 ms recovery times.
- Network Protection — Port isolation, loop detection, and broadcast control guard stability.
- Durable Hardware — Industrial-grade galvanized chassis with improved heat dissipation.
- Global Compliance — CE, FCC, and RoHS certified for international deployments.

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TECHNICAL SPECIFICATION



Model	Q-EP-9500-48P-L2-4G-R
Interface Characteristics	
Fixed Port	1*RS232 console port(115200,N,8,1) 48*10/100/1000Base-T RJ45 ports (Data) 4*100/1000Base-X uplink SFP fiber ports (Data)
Ethernet Port	Port 1-48 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)
Optical Fiber Port	Gigabit optical fiber interface, default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-500m, 0-300m(10G) Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
Chip Parameter	
Network Management Type	L2+
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	104Gbps (non-blocking)
Power Supply	
Fixed Port	Port 1 to 48
Power Consumption	Standby<35W, Full load<55W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz, 1.0A

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TECHNICAL SPECIFICATION

Model	Q-EP-9500-48P-L2-4G-R
Physical Parameter	
Operation Temp/ Humidity	-40~+80°C, 5%~90% RH Non condensing
Storage Temp/ Humidity	-40~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	440*290*44.5mm
Weight	4.5kg
Installation	Desktop, 1U/19" cabinet
Certification & Warranty	
Lighting Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Country of Origin	Vietnam
Warranty	2 Years

ORDERING INFORMATION

Model	Description	Input Voltage
Q-EP-9500-48P-L2-4G-R	48-Port Gigabit Layer 2+ Managed Ethernet Switch with 4 SFP uplinks and built-in AC power supply.	60 W