

## QUANT POE SWITCH SERIES 4800



Q-M-4800-24P-L3-4S-V



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### PRODUCT OVERVIEW

The **Quant 4800 PoE Switch Series** delivers carrier-grade Layer 3 managed PoE+ switching with high uplink bandwidth and advanced routing capabilities, making it ideal for large enterprises, campus, and IP surveillance network backbones.

Available in 24-port and 48-port Gigabit PoE+ configurations with 4 × 1/10G SFP+ uplink ports, this series combines high switching capacity, intelligent PoE power, and enhanced security features to meet the demands of high-density PoE environments.

The switches support IEEE 802.3af/at PoE+ with a total PoE budget of 400 W (24-port) and 600 W (48-port). With Layer 3 static and dynamic routing, ERPS (<20 ms), and IPv4/IPv6 support, these models ensure a stable, flexible, and secure network core.

### PRODUCT FEATURE

- **High Uplink Bandwidth**
  - 4 × 1/10G SFP+ uplink ports for flexible fiber backbone integration
  - Non-blocking wire-speed switching fabric up to 216 Gbps
  - Supports long-distance fiber for campus and enterprise networks
- **Intelligent PoE+ Power**
  - IEEE 802.3af/at compliant, up to 30 W per port
  - Total PoE budget: 400 W (24-port) / 600 W (48-port)
  - Intelligent allocation, prioritization, and scheduling
  - Supports remote PoE control and power monitoring
- **Advanced L2/L3 Capabilities**
  - VLAN, QinQ, ACL, QoS, IGMP/MLD Snooping
  - Layer 3 routing (static & dynamic), RIP, OSPF, VRRP (48-port model)
  - IPv4/IPv6 dual-stack support
- **Industrial-Grade Reliability**
  - 4 kV surge protection and durable galvanized steel housing
  - 20 °C to +55 °C operating temperature
  - Built-in fans for efficient cooling and long MTBF.

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### TECHNICAL SPECIFICATION

Model	Downlink PoE Ports	SFP Uplink	Network Protocol	Transmission Distance
<b>Connectivity</b>				
<b>Q-M-4800-24P-L3-4S-V</b>	24 × 10/100/1000 Mbps PoE+	4 × 1/10G SFP+	IEEE 802.3af/at	100 m
<b>Q-M-4800-48P-L3-4S-V</b>	48 × 10/100/1000 Mbps PoE+	4 × 1/10G SFP+	IEEE 802.3af/at	100 m

- Multi-mode fiber: up to 550 m (10G: 300 m), LC interface. supports DDM function and hot plugging.
- Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km, LC/SC interface. supports DDM function and hot plugging
- Optical Fiber Port Expansion: Turbo overclocking 2.5G optical module expansion and ring network.

Model	Switching Capacity	Forwarding Rate	MAC Address Table	Buffer Memory	Jumbo Frame	CPU	Forwarding Mode	Input Voltage
<b>Performance and Efficiency</b>								
<b>Q-M-4800-24P-L3-4S-V</b>	176 Gbps	95.23 Mpps	32 K	32M	9.6 K	500MHz	Store-and-forward	400W
<b>Q-M-4800-48P-L3-4S-V</b>	176 Gbps	131 Mpps	32 K	32M	9.6 K	500MHz	Store-and-forward	600W

- STP / RSTP / MSTP / ERPS for sub-20 ms protection switching
- Dual firmware images and watchdog protection
- -20 °C to +55 °C operating range
- 4 kV surge protection, IP30 enclosure
- CE, FCC, RoHS certifications.
- DRAM / Flash: 1 GB / 128 MB + 2 GB / 256 MB

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Model	Q-M-4800-24P-L3-4S-V	Q-M-4800-48P-L3-4S-V
<b>Interface Characteristics</b>		
<b>Max Power Consumption</b>	Standby<25W, Full Load<400W	Standby<30W, Full Load<600W
<b>Power Supply</b>	Built-in power supply, AC100~240V 50-60Hz, 5.0A	Built-in power supply, AC100-240V 50-60Hz, 6.6A
<b>Dimensions (L×W×H)</b>	440*290*44.5mm	
<b>Weight</b>	4.8 kg	5.7 kg
<b>Operating Temp</b>	-20~+55°C, 5%~90% RH Non condensing	
<b>Lightning Protection</b>	Lightning protection: 4KV 8/20us, Protection level: IP30	
<b>Certifications</b>	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS	
<b>Country of Origin</b>	Vietnam	
<b>Warranty</b>	2 Years	

### ORDERING INFORMATION

Model	Description	Input Voltage
<b>Q-M-4800-24P-L3-4S-V</b>	24-Port Gigabit PoE+ L3 Managed Switch with 4 × 1/10G SFP+ uplinks	400W
<b>Q-M-4800-48P-L3-4S-V</b>	48-Port Gigabit PoE+ L3 Managed Switch with 4 × 1/10G SFP+ uplinks	600W

