

## QUANT 3800 SWITCH SERIES



Q-M-3800-24P-L3-4S-R



Q-M-3800-48P-L3-4S-R

### PRODUCT OVERVIEW

The Quant PoE Switch Series 3800 is a high-performance Layer 3 managed Gigabit PoE+ switch family featuring 10G SFP+ uplinks, designed for high-density IP surveillance, enterprise networking, and campus backbone applications.

The series includes 24-port L3 and 48-port L3 models, both equipped with 4 × 1/10G SFP+ uplink ports, ensuring non-blocking wire-speed forwarding and seamless integration with fiber backbones.

Supporting IEEE 802.3af/at PoE+, each RJ45 downlink port provides up to 30 W with a total PoE budget of 400 W (24-port) and 600 W (48-port). Advanced routing, VLAN, multicast, and QoS capabilities combined with rapid failover (ERPS <20 ms) make these switches ideal for large-scale, resilient networks.

### PRODUCT FEATURE

- **10G Uplink Flexibility**
  - 4 × 1/10G SFP+ uplinks enable high-speed fiber backbone integration
  - Non-blocking switching fabric ensures full throughput for all ports
  - Ideal for IP surveillance and converged networks
- **Powerful PoE+ Performance**
  - IEEE 802.3af/at compliant, up to 30 W per port
  - Total PoE budget: 400 W (24-port) / 600 W (48-port)
  - Intelligent allocation, scheduling, and priority mechanisms
- **Advanced Network Capabilities**
  - VLAN, QinQ, ACL, IGMP/MLD Snooping, QoS, and ERPS
  - Layer 3 static and dynamic routing (48-port model)
  - IPv4/IPv6 dual-stack management and routing
- **Rugged and Reliable**
  - 4 kV surge protection, galvanized steel housing
  - Fan cooling and efficient power design for stability
  - Wide operating temperature -20 °C to +55 °C.

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### TECHNICAL SPECIFICATION

Model	Downlink PoE Ports	SFP Uplink	Network Protocol	Transmission Distance
<b>Connectivity</b>				
<b>Q-M-3800-24P-L3-4S-R</b>	24 × 10/100/1000 Mbps PoE+	4 × 1/10G SFP+	IEEE 802.3af/at	100 m
<b>Q-M-3800-48P-L3-4S-R</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. support DDM function and hot plugging.
- Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km, LC/SC interface. support DDM function and hot plugging.

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-3800-24P-L3-4S-R</b>	128 Gbps	95.23 Mpps	16 K	12 Mbit	12 K	800 MHz	Store-and-forward	380W
<b>Q-M-3800-48P-L3-4S-R</b>	216 Gbps	131 Mpps	32 K	16 Mbit	12 K	Dual-core 1 GHz	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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### TECHNICAL SPECIFICATION



Model	Q-M-3800-24P-L3-4S-R	Q-M-3800-48P-L3-4S-R
<b>Interface Characteristics</b>		
<b>Max Power Consumption</b>	Standby<20W, full load<380W	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>	440×290×44.5 mm	
<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, RoHS	
<b>Country of Origin</b>	Vietnam	
<b>Warranty</b>	2 Years	

### ORDERING INFORMATION

Model	Description	Input Voltage
<b>Q-M-3800-24P-L3-4S-R</b>	24-Port Gigabit PoE+ L3 Managed Switch with 4 × 1/10G SFP+ uplinks	400W
<b>Q-M-3800-48P-L3-4S-R</b>	48-Port Gigabit PoE+ L3 Managed Switch with 4 × 1/10G SFP+ uplinks	600W

