

## QUANT 9400 SERIES – MANAGED INDUSTRIAL ETHERNET SWITCH



### Q-CR-9400-16SFP-L3-8EU-8S-I

## PRODUCT OVERVIEW

Q-CR-9400-16SFP-L3-8EU-8S-I is a 10G uplink managed industrial Ethernet switch designed for harsh environments and mission-critical industrial networks. It provides gigabit fiber access, gigabit copper connectivity, and 10G uplinks, with Layer-3 network management, IPv4/IPv6 support, dynamic routing forwarding, strong security mechanisms, and advanced VLAN/QoS strategies for easy operation and maintenance.

It supports multiple network redundancy protocols such as STP/RSTP/MSTP (<50ms) and ERPS (ITU-T G.8032) (<20ms) to enhance link backup and ensure high network reliability and fast recovery.

## PRODUCT FEATURE

### Gigabit Access + 10G Uplinks

- Non-blocking, wire-speed forwarding on all ports
- Full-duplex IEEE 802.3x flow control and half-duplex backpressure support

### Strong Business Processing Capability

- Redundancy & loop protection: ERPS + STP/RSTP/MSTP
- VLAN features: IEEE 802.1Q VLAN, Voice VLAN, QinQ
- Link aggregation: static & dynamic aggregation for bandwidth increase, load balancing, and backup
- QoS: Port-based, 802.1P-based, DSCP-based; scheduling: Equ / SP / WRR / SP+WRR
- Multicast: IGMP v1/v2/v3 + IGMP Snooping

### Security

- Port+MAC binding, IP+MAC+Port binding
- Port isolation, broadcast storm suppression
- 802.1X authentication for LAN access control

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### Easy O&M

- CPU / memory monitoring, Ping detection
- RMON, system logs, and traffic statistics
- Secure management: HTTPS, SSLV3, SSHV1/V2
- LLDP for link status visibility
- Management methods: Web, CLI (Console/Telnet), SNMP v1/v2/v3

### TECHNICAL SPECIFICATION

Model	Q-CR-9400-20SFP-L3-4S
Interface & Ports (Fixed)	<ul style="list-style-type: none"> <li>• 4 × 1/10G SFP+ uplink fiber ports (Data)</li> <li>• 16 × 100/1000Base-X SFP fiber ports (Data)</li> <li>• 8 × 10/100/1000Base-T RJ45 ports (Data)</li> <li>• 8 × 100/1000Base-X SFP combo ports (Data)</li> <li>• 1 × Console port (115200, N, 8, 1)</li> <li>• Power interfaces: 2 × AC100–240V input + 1 × DC12–48V input (reverse polarity protection)</li> <li>• Power failure alarm switch port (Fault)</li> </ul>
Ethernet (RJ45)	<ul style="list-style-type: none"> <li>• Ports support 10/100/1000Base-T(X) auto-sensing, full/half duplex, MDI/MDI-X auto</li> <li>• Cabling (≤100m): Cat3/4/5 (10M), Cat5+ (100M), Cat5e+ (1G)</li> </ul>
Optical	<ul style="list-style-type: none"> <li>• Optical modules not included (optional SM/MM, single/dual fiber, LC)</li> <li>• Typical distance:                             <ul style="list-style-type: none"> <li>◦ MM: 850nm / up to 550m (1G), up to 300m (10G)</li> <li>◦ SM: 1310nm / up to 40km, 1550nm / up to 120km</li> </ul> </li> <li>• Supports optical module DDMI real-time diagnostics</li> </ul>
Performance	<ul style="list-style-type: none"> <li>• Forwarding mode: Store-and-Forward (Full wire speed)</li> <li>• Switching capacity: 128 Gbps (non-blocking)</li> <li>• Forwarding rate (@64 byte): 95.23 Mpps</li> <li>• CPU / Memory / Flash: 800MHz / 1GB DRAM / 128MB Flash</li> <li>• MAC table: 16K</li> <li>• Buffer: 12M</li> <li>• Jumbo frame: 12K</li> </ul>
Standards	IEEE: 802.3 / 802.3i / 802.3u / 802.3ab / 802.3z / 802.3ae / 802.3x
Indicators & Reset	LEDs: SYS (Green), Link (Yellow), Fiber L/A (Green) Reset: hold 10 seconds to restore factory settings
Certification	CE, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS
Origin of Country	Vietnam
Protection	IP40, lightning protection 6KV 8/20us (industrial EMC/surge protections listed)
Warranty	2 years

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### POWER / ENVIRONMENT / PHYSICAL

Model	Q-CR-9400-24SFP-L3-2QS
Power	<ul style="list-style-type: none"><li>Total power / Input voltage: 65W / AC100–240V</li><li>Consumption: Standby &lt; 35W, Full load &lt; 45W</li><li>Built-in PSU: AC100–240V, 50–60Hz, 0.65A</li><li>Dual AC input priority + DC12–48V input with automatic switching (anti-reverse protection)</li></ul>
Environment	<ul style="list-style-type: none"><li>Operating: -40°C to +75°C, 5%–90% RH (non-condensing)</li><li>Storage: -40°C to +80°C, 5%–95% RH (non-condensing)</li></ul>
Physical	<ul style="list-style-type: none"><li>Dimensions (L×W×H): 440 × 298 × 44 mm</li><li>Net / Gross weight: 3.95 kg / 4.75 kg</li><li>Installation: Desktop, 1U / 19" rack mount</li></ul>

### ORDERING INFORMATION

Model	Description
Q-CR-9400-16SFP-L3-8EU-8S-I	L3 managed industrial Ethernet switch with 16×1G SFP, 8×RJ45 10/100/1000, 8×1G SFP combo, and 4×1/10G SFP+ uplinks, supporting dual AC + DC redundant power input, designed for industrial and critical network deployments.

