

## QUANT 9600 INDUSTRIAL ETHERNET SWITCH SERIES



### Q-CR-9400-24SFP-L3-2QS

## PRODUCT OVERVIEW

Q-CR-9400-24SFP-L3-2QS is a high-performance 10G access / 40G uplink Layer-3 core routing switch designed for next-generation enterprise networks, data centers, and metropolitan area networks. It can be deployed at the aggregation/core layer for operators, campuses, and enterprises, and can also serve as an access layer switch for data centers and SMEs, offering a rich server access solution.

This model provides 24 × 1/10G SFP+ fiber ports and 2 × 40G QSFP fiber uplink ports in a 1U / 19" rack mount form factor. With L2/L3/L4 line-rate switching, QoS, multicast and advanced routing functions, it is ideal for high-bandwidth converged networks (voice/video/data).

## PRODUCT FEATURE

### Advanced Hardware Architecture

- 1U compact design with high port density: 24 × 1/10G SFP+ + 2 × 40G QSFP
- Built for high performance, high capacity, scalability, and big-data transmission needs

### Powerful Service & Reliability

- Ethernet OAM support: IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731 (fault detection & location)
- Redundancy & resiliency: STP/RSTP/MSTP, VRRP, ring protection, dual-uplink primary/secondary protection, LACP aggregation
- BFD millisecond-level detection and fast recovery with L2/L3 linkage

### Rich L3 / IPv6

- Complete L3 routing protocols and large routing table capacity for large-scale networks
- IPv6 management and control: IPv6 Ping / Telnet / SSH / ACL
- IPv6 multicast: MLD / MLD Snooping
- IPv6 routing: IPv6 Static / RIPng / OSPFv3 / BGP4+
- IPv4 → IPv6 transition: Manual tunnel / Auto tunnel / 6to4 / ISATAP

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### Security

- Authentication: IEEE 802.1X / RADIUS / TACACS+
- ACL security filtering based on user/app/port levels
- Protection against attacks: DoS / TCP SYN Flood / UDP Flood / broadcast storm / large traffic attacks
- Hierarchical CLI/user permission management

### Easy Operation & Maintenance

- Monitoring: CPU / Memory, Ping detection, cable length detection
- RMON, system log, port traffic statistics
- Secure management: HTTPS / SSL / SSH
- Discovery: LLDP
- Management methods: Web, CLI (Console/Telnet), SNMP v1/v2/v3
- Optional centralized platform: NMS cluster management (batch config/upgrade, anomaly monitoring & alarms)

## TECHNICAL SPECIFICATION

Model	Q-CR-9400-20SFP-L3-4S
Interface & Ports	<ul style="list-style-type: none"> <li>• 24 × 1/10G SFP+ fiber ports (Data)</li> <li>• 2 × 40G QSFP fiber ports (Data)</li> <li>• 1 × USB 2.0</li> <li>• 1 × Console RS232 (9600, 8, N, 1)</li> <li>• 1 × RJ45 management port (Data)</li> </ul>
Optical Interface	<ul style="list-style-type: none"> <li>• 10G SFP+ optical fiber interface</li> <li>• Optical modules are not included (optional single-mode/multi-mode, single-fiber/dual-fiber, LC)</li> </ul>
Optical Cable / Distance (Typical)	<ul style="list-style-type: none"> <li>• Multi-mode: 850nm / 0–550m</li> <li>• Single-mode: 1310nm / 0–40km</li> <li>• Long distance single-mode: 1550nm / 0–120km</li> </ul>
Switching Performance	<ul style="list-style-type: none"> <li>• Forwarding Mode: Store &amp; Forward (Full Wire Speed)</li> <li>• Switching Capacity: 2.56 Tbps (non-blocking)</li> <li>• Forwarding Rate (@64 byte): 476.16 Mpps</li> <li>• MAC Address Table: 128K</li> <li>• Buffer Memory: 72M</li> <li>• Jumbo Frame: 9K</li> </ul>
Network Standards	IEEE 802.3u / 802.3ab / 802.3z / 802.3ae / 802.3ba / 802.3x
Certification	CCC, CE, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Origin of Country	Vietnam
Lightning protection	6KV 8/20us, protection level IP30
LED Indicators	Power: PWR (Green) System: SYS (Green)
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: 96W / AC 100–240V</li><li>Power Consumption: Standby &lt; 50W, Full Load &lt; 90W</li><li>Power Supply: Built-in AC 100–240V, 50–60Hz, 1.0A</li><li>Power Redundancy: Built-in single PSU; supports dual power supply expansion slot</li></ul>
Environment	<ul style="list-style-type: none"><li>Operating: -20°C to +55°C, 5%–90% RH (non-condensing)</li><li>Storage: -40°C to +75°C, 5%–95% RH (non-condensing)</li></ul>
Physical	<ul style="list-style-type: none"><li>Dimensions (L×W×H): 440 × 320 × 44 mm</li><li>Net / Gross Weight: &lt; 8.0 kg / &lt; 8.5 kg</li><li>Installation: Desktop, 1U / 19" rack mount</li></ul>

### ORDERING INFORMATION

Model	Description
<b>Q-CR-9400-24SFP-L3-2QS</b>	L3 managed core routing switch with 24 × 1/10G SFP+ ports and 2 × 40G QSFP uplinks, 2.56Tbps switching capacity, advanced IPv4/IPv6 routing, security, and O&M features.