

QUANT 9400 SERIES CORE SWITCH



Q-CR-9400-20SFP-L3-4S

PRODUCT OVERVIEW

The Quant 9400 Series is a high-performance Layer 3 managed core switch engineered for next-generation enterprise networks, metropolitan backbones, large campus environments, and data-intensive applications.

It delivers line-rate L2/L3/L4 switching, advanced IPv6 capabilities, strong security control, traffic analysis, and high-reliability architecture for long-term stable communication in critical networks.

Powered by a 598 Gbps non-blocking switching fabric, the 9400 Series is optimized for converged traffic (voice, video, and data) and suits deployments such as smart campuses, large smart communities, smart cities, and smart transportation environments.

PRODUCT FEATURE

High-Performance L3 Routing Core

- 598 Gbps non-blocking switching capacity for core aggregation and distribution layers
- Line-rate L2/L3/L4 switching with full wire-speed forwarding
- Large routing table capability to support multi-network interconnection

Carrier-Grade Service Assurance (OAM)

- Complete Ethernet OAM support: IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731
- Supports high-bandwidth aggregation and stable core convergence

Advanced IPv4 / IPv6 Dual-Stack Capabilities

- IPv6 management & 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

QUANT 9400 SERIES CORE SWITCH



PRODUCT FEATURE

Comprehensive Security Architecture

- Authentication & access: IEEE 802.1X / RADIUS / TACACS+
- DoS defense: TCP SYN Flood / UDP Flood / broadcast storm / large traffic attacks
- Multi-level user permissions and secure management (HTTPS/SSL/SSH)

Easy Operation & Maintenance (O&M)

- CPU / memory monitoring, Ping detection, cable length detection
- RMON, system logs, and traffic statistics
- Web, CLI (Console/Telnet), and SNMP v1/v2/v3 management
- LLDP for link discovery and management

Model	Downlink Ports	Uplink Ports	Routing Type	Installation
Connectivity				
Q-CR-9400-20SFP-L3-4S	20 × 100/1000M SFP (Data)	4 × 1/10G SFP+ (Data)	Layer 3, IPv4/IPv6	1U / 19" Rack Mount

Notes:

- SFP+ ports support DDM and hot-plugging
- Optical modules are not included (purchase separately)

Optical Interface (SFP / SFP+) Support

- Single-mode / multi-mode, single-fiber / dual-fiber (LC)
- Typical distance support (module dependent):
 - Multi-mode 850 nm: up to 550 m
 - Single-mode 1310 nm: up to 40 km
 - Single-mode long distance 1550 nm: up to 120 km

QUANT 9400 SERIES CORE SWITCH



Model	Switching Capacity	Forwarding Rate	MAC Address Table	Packet Buffer	Jumbo Frame	Forwarding Mode
Performance and Efficiency						
Q-CR-9400-20SFP-L3-4S	598 Gbps (Non-blocking)	252 Mpps (@64 byte)	32 K	16 M	9 KB	Store-and-forward (Full Wire Speed)

Certification	Country of Origin	Warranty	Standards / Protocols	Lightning Protection	Protection Level
CCC, CE, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS	Vietnam	2 Years	IEEE 802.3u, 802.3ab, 802.3z, 802.3ae, 802.3x	6KV (8/20us)	IP30

SOFTWARE FEATURES

Model	Q-CR-9400-20SFP-L3-4S
Layer 2	<ul style="list-style-type: none"> STP (802.1D) / RSTP (802.1W) / MSTP (802.1S) BPDU Guard / BPDU Filter / Root Guard VLAN: 4K VLAN, Port-based VLAN, 802.1ad QinQ (as applicable)
IPv4 Routing	<ul style="list-style-type: none"> Static / Policy / Default routing RIP v1/v2, OSPF, BGP VRRP (preemption), BFD + Track Routing cost settings; MD5/plaintext authentication (where applicable)
IPv6	<ul style="list-style-type: none"> IPv6 Static / RIPng IPv6 tools: Ping / Tracert / Telnet / TFTP / ICMP (Also supports OSPFv3 / BGP4+ as listed)
DHCP	<ul style="list-style-type: none"> DHCP Snooping / DHCP Relay / DHCP Server

QUANT 9400 SERIES CORE SWITCH



POWER / ENVIRONMENT / PHYSICAL

Model	Q-CR-9400-20SFP-L3-4S
Power	<ul style="list-style-type: none">Total Power / Input Voltage: 72W / AC 100-240V
Environment	<ul style="list-style-type: none">-20°C to +55°C, 5%–90% RH (non-condensing)
Mechanical	<ul style="list-style-type: none">-40°C to +75°C, 5%–95% RH (non-condensing)
Installation	<ul style="list-style-type: none">Desktop / 1U / 19" rack mount
Dimensions (L×W×H)	<ul style="list-style-type: none">440 × 285 × 45 mm
Net / Gross Weight	<ul style="list-style-type: none">< 5.0 kg / < 5.3 kg

ORDERING INFORMATION

Model	Description
Q-CR-9400-20SFP-L3-4S	Layer 3 Core Switch with 20 × 1G SFP ports and 4 × 1/10G SFP+ uplinks, 598 Gbps switching capacity, advanced IPv4/IPv6 routing, OAM and security features.

