



QN-SW225-48P

PRODUCT OVERVIEW



4x10 GbE SFP+ Uplink Ports



48x1 GbE PoE Ports



176 Gbps Switching Capacity



Reliable & Resilient



OOB Management



740 Watts PoE Budget

QN-SW225-48P

PRODUCT OVERVIEW

- QN-SW225-48P Switches provide Layer 2 and Layer 3 switching, ideal for Enterprise and Campus deployments, the SW225 series features are designed to meet the diverse needs of large enterprise networks.
- Provides 10G SFP+ uplink interfaces on all models with non-blocking switching capabilities.
- Supports PoE and PoE+ on 802.3af/at as well as passive power for PoE on all networking ports.
- Supports management through Quantum® RUDDER, the user will have Enterprise class single-point-of-management of the entire enterprise network using Quantum® RUDDER.
- It supports IEEE 802.3az Energy Efficient Ethernet (EEE) and provides Enterprise-class features like VLAN, Routing, STP/MSTP/RSTP, 802.1x etc.
- Provides easily deployed futuristic customer engagement solutions OOB and Network port-based Quantum® RUDDER Onboarding.

QN-SW225-48P

KEY FEATURES

- **10 GbE Ports Optimize Network Performance.**
Up to 4x10G SFP+ ports for stacking or uplinks.
- **One Time Licensing.**
Quantum® RUDDER serves perpetual management licensing for hassle-free management.
- **Enhanced QoS.**
QN-SW225-48P Switch supports configurable QoS queues for converged voice, video, and data applications.
- **Easy to Manage.**
Easily manage all Quantum Networks products through feature-rich Quantum® RUDDER management console.

QN-SW225-48P

KEY SPECIFICATIONS

General	
Product type	Switch
Model	QN-SW225-48P
Product description	48x10/100/1000 Base T ports, 740W PoE Budget, 4x1 GbE SFP Uplink-ports, Upgradable to 4x10 GbE SFP+
Ports	
Gigabit ethernet(RJ45) ports	48
1G/10G Fiber SFP/SFP+ (uplink Port)	4
Console port	Serial console port (RJ-45)
RJ45 management	OOB (Out of band) Management
PoE	
PoE+ ports	48 (Configurable)
Power budget	740 Watt
Supported PoE type (802.3af/at)	Yes
Layer 2	
Forwarding rate	131 Mpps
Switching throughput	176 Gbps
STP, RSTP	Yes
MSTP	Yes
VLANs	Yes (4094)
MAC based VLANs	Yes
Auto MDI/MDIX	Yes
BPDU guard, Root guard	Yes
IGMP/IGMP snooping v1/v2/v3*	Yes
LLDP/LLDP MED	Yes
Port mirroring (Port, ACL, VLAN Based)	Yes
Link aggregation groups	Yes
Jumbo frame	Yes

BPDU filtering	Yes
Ping/Trace route/ICMPv6	Yes
Storm control (Broadcast, Multicast, Unicast)	Yes
GVRP	Yes
Loopback detection	Yes
Energy efficient ethernet	Yes
Green ethernet	Yes
Layer 3	
Inter-VLAN routing	Yes
RIPv2	Yes
OSPFv2/v3	Yes
DHCP relay	Yes
DHCP server	Yes
DHCPv6 client	Yes
IPv4 Static routing	Yes
IPv4 Host routing	Yes
IPv6 Static routing	Yes
IPv6 Host routing	Yes
IPv6 Unicast routing	Yes
ARP Table	Yes
IPv6 ND	Yes
IP source guard	Yes
ISATAP	Yes
Policy based routing	Yes
IPv4 Interface	Yes
IPv6 Interface	Yes
Route-only support	Yes
VRRP	Yes
Quality of Service	
Priority queue	Yes
ACL mapping to priority queue	Yes
WRR support	Yes
Strict priority support	Yes
Traffic shaping	Yes

QoS based on classification	Yes
802.1p support	Yes
Security	
ACLs	Yes
DHCP snooping	Yes
802.1x authentication	Yes
MAC authentication	Yes
Radius/Tacacs/Tacacs+	Yes
AAA	Yes
SSH	Yes
Secure copy (SCP)	Yes
DoS protection	Yes
Local username/password	Yes
Protected ports	Yes
RA guard	Yes
Management	
Cloud management	Yes (Rudder)
Industrial standard CLI	Yes
Local management	Yes (Stand alone)
Stacking	Yes
SNMP v1/v2/v3	Yes
TFTP support	Yes
SPAN/RSPAN	Yes
sFLOW	Yes
RMON	Yes
Telnet support	Yes
SNTP	Yes
Syslog server	Yes
IPv6 management	Yes
Storage & File management with USB	Yes
Firmware auto install support	Yes
Password management	Yes

Environmental	
Operating temperature	-5°C (23°F) to 55°C (131°F)
Storage temperature	-40°C (-40°F) to 70°C (158°F)
RoHS compliant	Yes

ORDERING INFORMATION

Part Number	Description
QN-SW225-48P	Quantum QN-SW225-48P Networking Switch, 48x10/100/1000 Base T ports, 4x1 GbE SFP Uplink-ports, Upgradable to 4x10 GbE SFP+, Includes cloud controller license and 3 Years online activation warranty.
QN-SW225-UL-1x10G	Quantum QN-SW225 license to upgrade single uplink-port from 1 GbE SFP to 10 GbE SFP+