

QUANTUM

PRODUCT PORTFOLIO



Wi-Fi



Switches

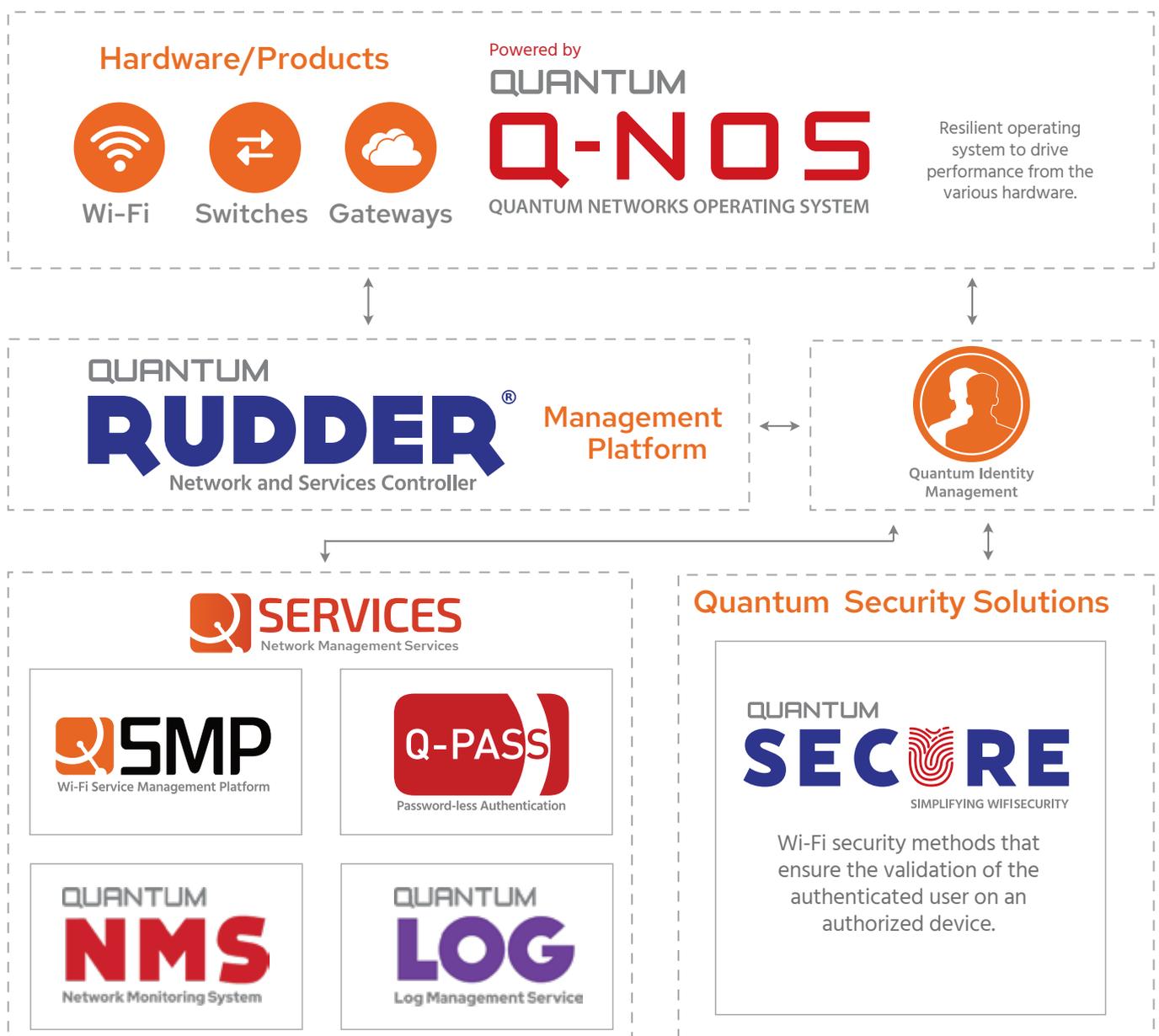


Gateways



Q-Services

Quantum Networks is a leading-edge networking equipment brand providing full-stack cloud-managed solutions. Currently, it offers various models under product rubrics such as Indoor Access Points, Outdoor Access Points, Gateways, Ethernet Switches and Privileged Access Management Solutions. Among its highly innovative technology offerings are Quantum Rudder, Quantum Ace, Quantum UnGrid and Quantum Secure. Quantum cloud-managed solutions allow users to manage their entire network from anywhere across the globe. Quantum Networks is committed to developing creative and intelligent Wireless Networking solutions.



 **ADVANTAGE**
QUANTUM

Unified Management

- o Wi-Fi
- o Switching
- o Gateway
- o VPN solutions

Scalability

- o Management for up to 10,000 Quantum devices
- o No limitation on user management

Identity Management

- o User database management
- o Roles/User group management
- o User device management
- o MAC randomization solution

Total Cost of Ownership

- o Perpetual subscriptions
- o No renewals
- o No recurring support contracts
- o No management cost for life

Solution-based

- o Vertical-based custom solutions
- o 802.1x-based authentication solutions
- o Third-party integrations with Hospital/Hotel/Visitor Management Software

Support Standards

- o 24/7 Quantum-backed support
- o Clear hardware warranties
- o Project-based extendible warranties up to 5 years
- o Warranties start from the date of activation of the hardware, not on the supply date

Access Points



**WAN
Uplinks**



Wi-Fi 6



**Higher
Data Rate**



**Cloud
Managed**

- Offers wide range of indoor, outdoor and in-room Wi-Fi 6 Access Points.
- It provides high speed Internet, wide coverage and reliable performance in low to high-density of users.
- Quantum Rudder provides both cloud-managed and on-premise solutions and Quantum Ace mobile application allows administrators to manage Quantum devices.

Indoor Access Points

QN-I-870

5 GbE
Connectivity

2.4 GHz - 4x4,
5 GHz - 8x8
MU-MIMO with
OFDMA

Up to 5.9 Gbps
Data Rate



QN-I-490

2.5 GbE
Connectivity

2.4 GHz - 4x4,
5 GHz - 4x4
MU-MIMO with
OFDMA

Up to 5.9 Gbps
Data Rate

QN-I-470

2.5 GbE
Connectivity

2.4 GHz - 2x2,
5 GHz - 4x4
MU-MIMO with
OFDMA

Up to 2.9 Gbps
Data Rate



QN-I-280

2.5 GbE
Connectivity

2.4 GHz - 2x2,
5 GHz - 2x2
MU-MIMO with
OFDMA

Up to 3 Gbps
Data Rate

QN-I-270

2.5 GbE
Connectivity

2.4 GHz - 2x2,
5 GHz - 2x2
MU-MIMO with
OFDMA

Up to 1.7 Gbps
Data Rate



Indoor Access Points

QN-I-210 PLUS

1 GbE
Connectivity

2.4 GHz - 2X2,
5 GHz - 2X2
MU-MIMO with
OFDMA

Up to 1.7 to 3 Gbps
Data Rate



QN-I-210

1 GbE
Connectivity

2.4 GHz - 2X2,
5 GHz - 2X2
MU-MIMO with
OFDMA

Up to 1.7 Gbps
Data Rate

QN-I-220

1 GbE
Connectivity

2.4 GHz - 2x2,
5 GHz - 2x2
MU-MIMO

Up to 1.2 Gbps
Data Rate



QN-H-245

1 GbE
Connectivity

2.4 GHz - 2x2,
5 GHz - 2x2
MU-MIMO with
OFDMA

Up to 2.9 Gbps
Data Rate

QN-H-220

1 GbE
Connectivity

2.4 GHz - 2x2,
5 GHz - 2x2
MU-MIMO with
OFDMA

Up to 1.2 Gbps
Data Rate



Outdoor Access Points

QN-O-490

2.5 GbE
Connectivity

2.4 GHz - 4x4,
5 GHz - 4x4
MU-MIMO with
OFDMA

Up to 3.5 Gbps
Data Rate



QN-O-240

2.5 GbE
Connectivity

2.4 GHz - 2x2,
5 GHz - 2x2
MU-MIMO with
OFDMA

Up to 3 Gbps
Data Rate

QN-O-230

1 GbE
Connectivity

2.4 GHz - 2x2,
5 GHz - 2x2
MU-MIMO with
OFDMA

Up to 1.2 Gbps
Data Rate



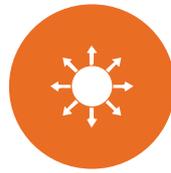
Switches



**OOB
Management**



**Enhanced
QoS**



**Layer-3
Functionalities**



**Fiber Port Speed
1/10/25/40/100G**

- Quantum Networks Switches simplify network management, enhance security and offer reliable performance. Our manageable switches range includes Access, Aggregation, Multigig/Core, Data Centre and Industrial switches.
- Options include 8-port, 24-port and 48-port switches to accommodate various network sizes with Versatile Power-over-Ethernet (PoE) Options.
- Experience single point control of network management with Quantum Rudder cloud-based solution and Quantum Ace mobile application.

Switching

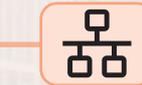
Enterprise Campuses | Hospitality | Financial Institutions



1G 2.5G 10G 25G

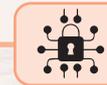
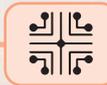
Enterprise Switches

Access + Aggregation + Multigig



VLAN Diversity

Routing Protocols



Network Security

Management Stacks



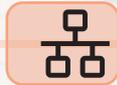
Internet Service Providers (ISPs) | Cloud Service Providers



Advanced Layer-3
Routing Protocols



Quality of Service (QoS)
Optimization



Comprehensive VLAN
Support

Enhanced Security
Measures



10G 40G 100G

Core Switches

Server Farm Connectivity | Top-of-Rack (ToR) Switching



25G 100G 400G

Data Centre Switches



Fast Data Transfer

Scalability



Robust Security
Protocols

Minimal Latency



1G 10G

Industrial Switches

-40°C 75°C



Factories and Manufacturing Plants



Reduced TCO



Adaptable
Deployment



Performance
Excellence



Purposeful
Design

Enterprise Switches



Enterprise switches play a pivotal role in meeting the dynamic requirements of both campus and enterprise networks. With robust Layer-2 switching and Layer-3 routing capabilities, these switches are designed to deliver high-performance networking solutions.

Access Switches

Downlinks : 8/12/16/24/48
Uplinks: 2/4 x 1G/10G SFP+
Power Budget: Up to 740 Watt
Switching Capacity: Up to 176 Gbps

QN-SW-225 Series

Downlinks : 24/48
Uplinks: 4x1G/10G SFP+
Power Budget: Up to 1480 Watt
Switching Capacity: Up to 176 Gbps

QN-SW-230-Series

Aggregation Switches

Downlinks : 24/48
Uplinks: 4+2*x25G SFP28
Stacking Port: 2*x25G SFP28
Power Budget: Up to 1440 Watt
Switching Capacity: Up to 396 Gbps

QN-SW-325-Series

Downlinks : 24/48
Uplinks: 4+2*x25G SFP28
Stacking Port: 2*x25G SFP28
Power Budget: Up to 1900 Watt
Switching Capacity: Up to 396 Gbps

QN-SW-330-Series

Multigig Switches

Downlinks: 24/48
Uplinks: 6(4+2*)x25G SFP28
Stacking Port: 2*x25G SFP28
Power Budget: Up to 1440 Watt
Switching Capacity: Up to 540 Gbps

QN-SW-425-Series

Downlinks: 24/48
Uplinks: 6(4+2*)x25G SFP28
Stacking Port: 2*x25G SFP28
Power Budget: Up to 1900 Watt
Switching Capacity: Up to 540 Gbps

QN-SW-430-Series

Enterprise QN-SW-225-Series

QN-SW-225-48 PORT



QN-SW-225-48P

QN-SW-225-48

48x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

740 Watts
Power Budget

48x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

Non-PoE

QN-SW-225-24 PORT



QN-SW-225-24FP

QN-SW-225-24P

QN-SW-225-24

24x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

740 Watts
Power Budget

24x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

400 Watts
Power Budget

24x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

Non-PoE

QN-SW-225-16 PORT



QN-SW-225-16P-2SFPP

QN-SW-225-16-4SFPP

16x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

240 Watts
Power Budget

16x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

Non-PoE

QN-SW-225-12 PORT



QN-SW-225-12P-2SFPP

QN-SW-225-12-2SFPP

12x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

188 Watts
Power Budget

12x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

Non-PoE

QN-SW-225-8 PORT



QN-SW-225-8FPU

QN-SW-225-8FP

QN-SW-225-8P

8x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

240 Watts
Power Budget

8x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

240 Watts
Power Budget

8x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

120 Watts
Power Budget

QN-SW-225-8F

QN-SW-225-8

8x1G
Fiber Uplinks

2x1G/10G
Fiber Uplinks

8x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

Non-PoE

Enterprise QN-SW-230-Series

QN-SW-230-48 PORT



QN-SW-230-48FP

QN-SW-230-48P

48x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

1480 Watts
Power Budget

48x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

740 Watts
Power Budget

QN-SW-230-48

48x1G RJ45 Downlinks

4x1G/10G Fiber Uplinks

Non-PoE

QN-SW-230-24 PORT



QN-SW-230-24FP

QN-SW-230-24P

24x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

740 Watts
Power Budget

24x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

400 Watts
Power Budget

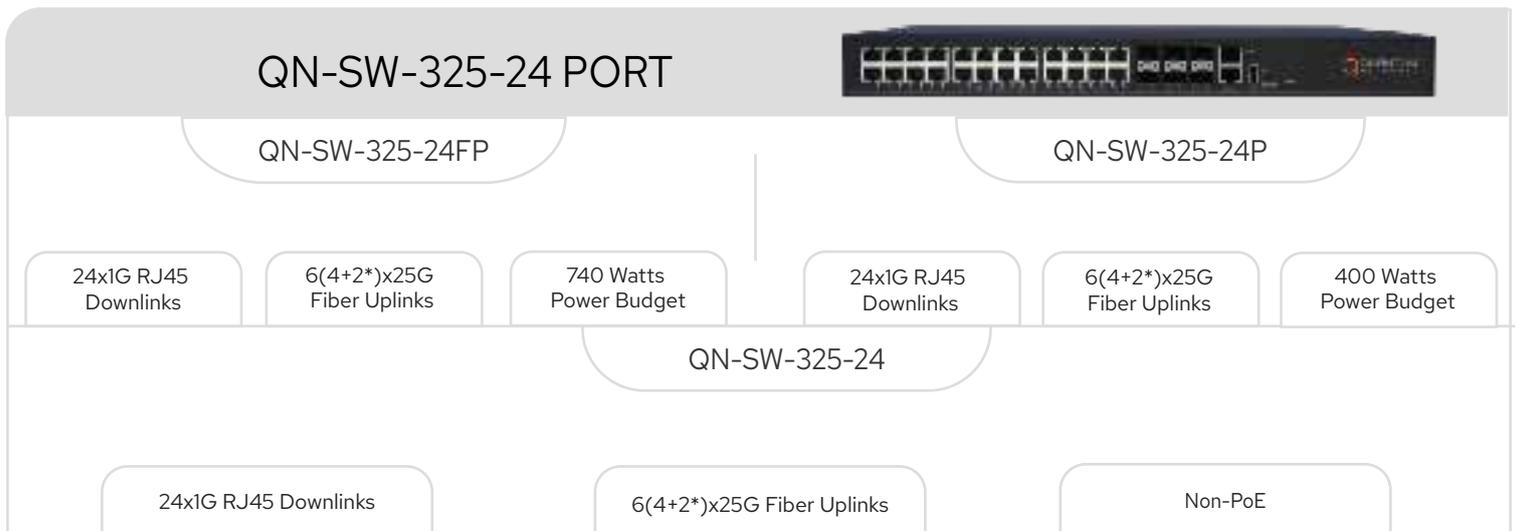
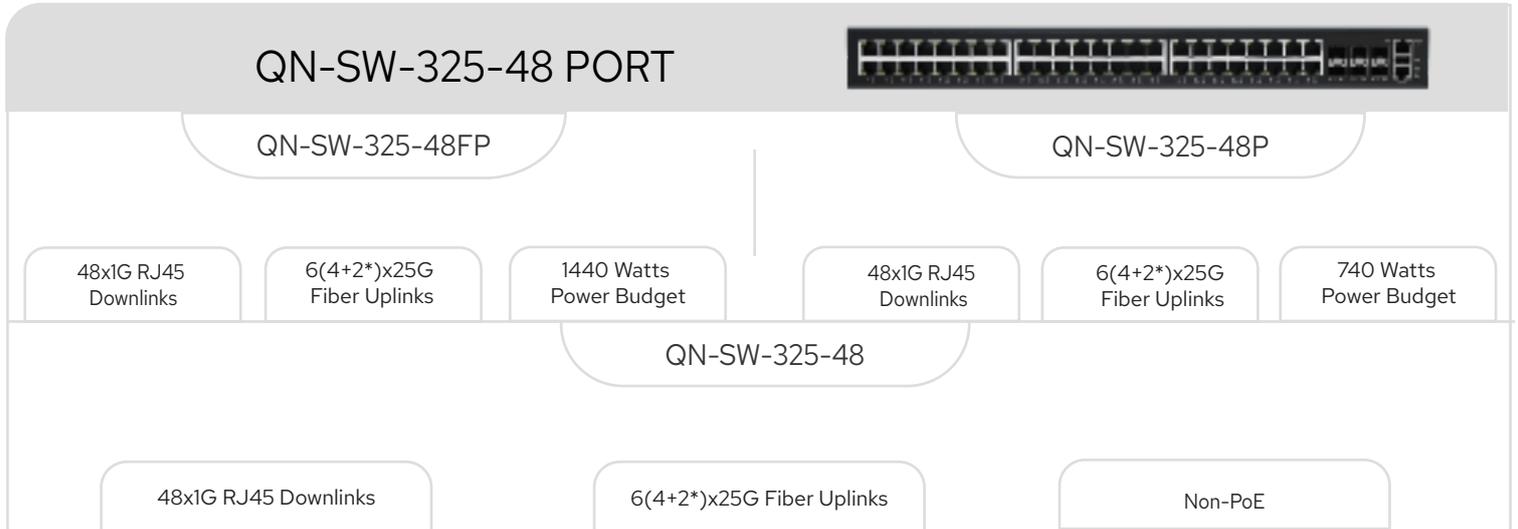
QN-SW-230-24

24x1G RJ45 Downlinks

4x1G/10G Fiber Uplinks

Non-PoE

Enterprise QN-SW-325-Series



Note:* Dedicated stacking ports can be configured as uplink ports.

Enterprise QN-SW-330-Series

QN-SW-330-48 PORT



QN-SW-330-48FP

QN-SW-330-48

48x1G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

1900 Watts
Power Budget

48x1G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

Non-PoE

QN-SW-330-24 PORT



QN-SW-330-24FP

QN-SW-330-24

24x1G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

820 Watts
Power Budget

24x1G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

Non-PoE

Note:* Dedicated stacking ports can be configured as uplink ports.

Enterprise QN-SW-425-Series

QN-SW-425-48 PORT



QN-SW-425-48FP

QN-SW-425-48

48x1/2.5G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

1440 Watts
Power Budget

48x1/2.5G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

Non-PoE

QN-SW-425-24 PORT



QN-SW-425-24FP

QN-SW-425-24

24x1/2.5G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

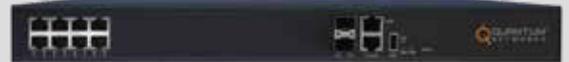
740 Watts
Power Budget

24x1/2.5G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

Non-PoE

QN-SW-425-8 PORT



QN-SW-425-8FP

QN-SW-425-8

8x1/2.5G RJ45
Downlinks

2*x10G
Fiber Uplinks

240 Watts
Power Budget

8x1/2.5G RJ45
Downlinks

2*x10G
Fiber Uplinks

Non-PoE

Note:* Dedicated stacking ports can be configured as uplink ports.

Enterprise QN-SW-430-Series

QN-SW-430-48 PORT



QN-SW-430-48FP

48x1/2.5G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

1900 Watts
Power Budget

QN-SW-430-48

48x1/2.5G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

Non-PoE

QN-SW-430-24 PORT



QN-SW-430-24FP

24 x1/2.5G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

820 Watts
Power Budget

QN-SW-430-24

24 x1/2.5G RJ45
Downlinks

6(4+2*)x25G
Fiber Uplinks

Non-PoE

Note:* Dedicated stacking ports can be configured as uplink ports.

Core Switches



QN-CS-4810GF

48x10G SFP+
downlinks

6x100G
QSFP28 uplinks

Fan: 2+1 Hot
Pluggable



QN-CS-1610GF

16x10G SFP+
downlinks

2 x100G
QSFP28 uplinks

Fan: 2+1 Hot
Pluggable



QN-CS-2410GF

24x10G SFP+
downlinks

6x100G
QSFP28 uplinks

Fan: 2+1 Hot
Pluggable



QN-CS-241GF

16x1G SFP Ports +
8x1G SFP/RJ45
combo ports

4x10G SFP+
uplinks

In-built Fan



Industrial Switches



QN-IS-225-48 PORT



QN-IS-225-48HP-4SFPP-R

QN-IS-225-48-4SFPP-R

48x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

400 Watts
Power Budget

48x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

Non-PoE

QN-IS-225-24 PORT



QN-IS-225-24P-4SFPP-R

QN-IS-225-24P-2SFPP-D

24x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

400 Watts
Power Budget

24x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

400 Watts
Power Budget

QN-IS-225-24-4SFPP-R

QN-IS-225-24-2SFPP-D

24x1G RJ45
Downlinks

4x1G/10G
Fiber Uplinks

Non-PoE

24x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

Non-PoE

QN-IS-225-8 PORT



QN-IS-225-8 FPU

QN-IS-225-8FP

8x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

240 Watts
Power Budget

2xMax PoE
(802.3bt)

8x1G RJ45
Downlinks

2x1G/10G
Fiber Uplinks

240 Watts
Power Budget

QN-IS-225-8

8x1G RJ45 Downlinks

2x1G/10G Fiber Uplinks

Non-PoE

Data Centre Switches



QN-DS-4825GF

48x25G
Downlinks

8x100G
Uplinks

1+1 Hot
Swappable PSU



QN-DS-2425GF

24x25G
Downlinks

6x100G
Uplinks

1+1 Hot
Swappable PSU

QN-DS-32400GF

32x400G
QSFP-DD

5+1 Hot
Pluggable Fan

1+1 Hot
Swappable PSU



QN-DS-32100GF

32x100G
QSFP28

5+1 Hot
Pluggable Fan

1+1 Hot
Swappable PSU

Transceiver



**Hot
Pluggable**



**High
Performance**



**Low Power
Consumption**



**RoHS compliant
(lead free)**

- The small, modular optical interface transceivers offer a convenient and cost effective solution for an array of applications in the data centre campus, metropolitan-area access and ring network, storage area network and long-haul network.
- Supporting various form factors, media types, and throughput, Quantum Network provides connectivity options to meet many different network architectures and deployment scenarios.
- The portfolios of Quantum Transceiver are fully compliant with industry standards.

Transceivers



100G

Model Number	Fiber Type	IEEE Standards	Wavelength (nm)	Maximum Cable Distance (mtrs)
QN-UTQSP100-LR4	Single-mode	802.3bm	1310	10000
QN-UTQSP100-SR4	Multi-mode	802.3bm	850	100
QN-UTQSP100-ER40	Single-mode	802.3bm	1550	40000
QN-UTQSP100-ZR80	Single-mode	802.3bm	1550	80000



40G



Model Number	Fiber Type	IEEE Standards	Wavelength (nm)	Maximum Cable Distance (mtrs)
QN-UTSP40-LR4	Single-mode	802.3ba	1310	10000
QN-UTSP40-SR4	Multi-mode	802.3ba	850	100

25G

Model Number	Fiber Type	IEEE Standards	Wavelength (nm)	Maximum Cable Distance (mtrs)
QN-UTSP28-LR	Single-mode	802.3by	1310	10000
QN-UTSP28-SR	Multi-mode	802.3by	850	100
QN-UTSP28-ER40	Single-mode	802.3by	1550	40000
QN-UTSP28-ZR80	Single-mode	802.3by	1550	80000



10G BASE-T Copper



Model Number	Fiber Type	IEEE Standards	Wavelength (nm)	Maximum Cable Distance (mtrs)
QN-UTSPP-10BT	--	802.3an	--	100**

** It's for cat6a and cat 7.

Transceivers



10G

Model Number	Fiber Type	IEEE Standards	Wavelength (nm)	Maximum Cable Distance (mtrs)
QN-UTSFP-LR	Single-mode	802.3ae	1310	10000
QN-UTSFP-SR	Multi-mode	802.3ae	850	300
QN-UTSFP-ER40	Single-mode	802.3ae	1550	40000
QN-UTSFP-ZR80	Single-mode	802.3ae	1550	80000



1000 BASE-T
Copper



Model Number	Fiber Type	IEEE Standards	Wavelength (nm)	Maximum Cable Distance (mtrs)
QN-UTSFP-1BT	--	802.3ab	--	100

1G

Model Number	Fiber Type	IEEE Standards	Wavelength (nm)	Maximum Cable Distance (mtrs)
QN-UTSFP-LX	Single-mode	802.3z	1310	10000
QN-UTSFP-SX	Multi-mode	802.3z	850	500
QN-UTSFP-LX-BXD*	Single-mode	802.3z	1490nm-TX /1310nm-RX	10000
QN-UTSFP-LX-BXU*	Single-mode	802.3z	1310nm-TX /1490nm-RX	10000
QN-UTSFP-ER40	Single-mode	802.3	1310	40000
QN-UTSFP-ZR80	Single-mode	802.3	1550	80000



*It's a bi-directional SFP Transceiver.

Gateways



**Data Usage
Analytics**



**Manage and Monitor
Multiple WAN**



**Application
Policing**



**Site-to-site
VPN**

- Quantum Networks Gateway supports multiple WAN.
- VPN for branch connectivity and link load balancing.
- Anywhere, Anytime Manageability of Gateway devices can be handled centrally using Quantum Rudder or Quantum Ace mobile application.

Gateways



QN-S-400

4 x ETH, 2 x USB
WAN Interface

4 x ETH, 1 x SFP,
4 x SFP+LAN
Interface

Stateful Firewall



QN-S-200

2 x ETH, 2 x USB
WAN Interface

4 x ETH, 2 x SFP,
2 x SFP+LAN
Interface

Stateful Firewall

QN-S-100

2 x ETH, 1 x USB
WAN Interface

4 x ETH, 1 x SFP
LAN Interface

Stateful Firewall



QN-S-50

Wi-Fi

1 x FE WAN,
1 x FE LAN

Firewall

Q-services



Network and Services Controller

Manage and troubleshoot your network from anywhere with our cloud-based solution. Enjoy ultimate flexibility and freedom.

Managed Cloud
Controller

Rudder Appliances
(On-Prem)

Rudder Virtual Appliance
(On-Prem)

Quantum Service Management Platform

QSMP offers secure, scalable and fully managed cloud-based Wi-Fi guest services. Simplify and streamline guest onboarding with QSMP.



Zero Trust Network Access

Zero Trust Network Access

QPASS secures your enterprise with reliable, scalable cloud infrastructure supporting 802.1X Radius standards. Protect wireless and wired networks from unauthorized access.

Quantum Access Manager

Quantum Access Manager is a cloud-hosted platform to provision, deploy and audit access to all computing resources. Easily manage wireless, wired, VPN and web access for enterprise users, guests, BYOD and IoT devices.



Quantum Access
Management



Network Monitoring System

Q-NMS is a powerful SaaS platform for centralized network monitoring and fault management. Ensure IT infrastructure uptime, support diverse devices and streamline remote configuration with Q-NMS. Optimize your network efficiently.

Log Management Service

Q-Log provides enterprise-scale Log Management services for secure collection, storage, analysis and archival of logs. Ensure compliance, encryption and efficient storage solutions with Q-Log. Gain actionable insights while meeting regulatory requirements.



Quantum Identity
Management

Quantum Identity Management

QIM, integrated with Rudder, allows administrators to create and manage user accounts and groups and assign them to Quantum services like SECURE and SECURE+



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