

# QUANTUM

## PRODUCT PORTFOLIO



Wi-Fi



Switches

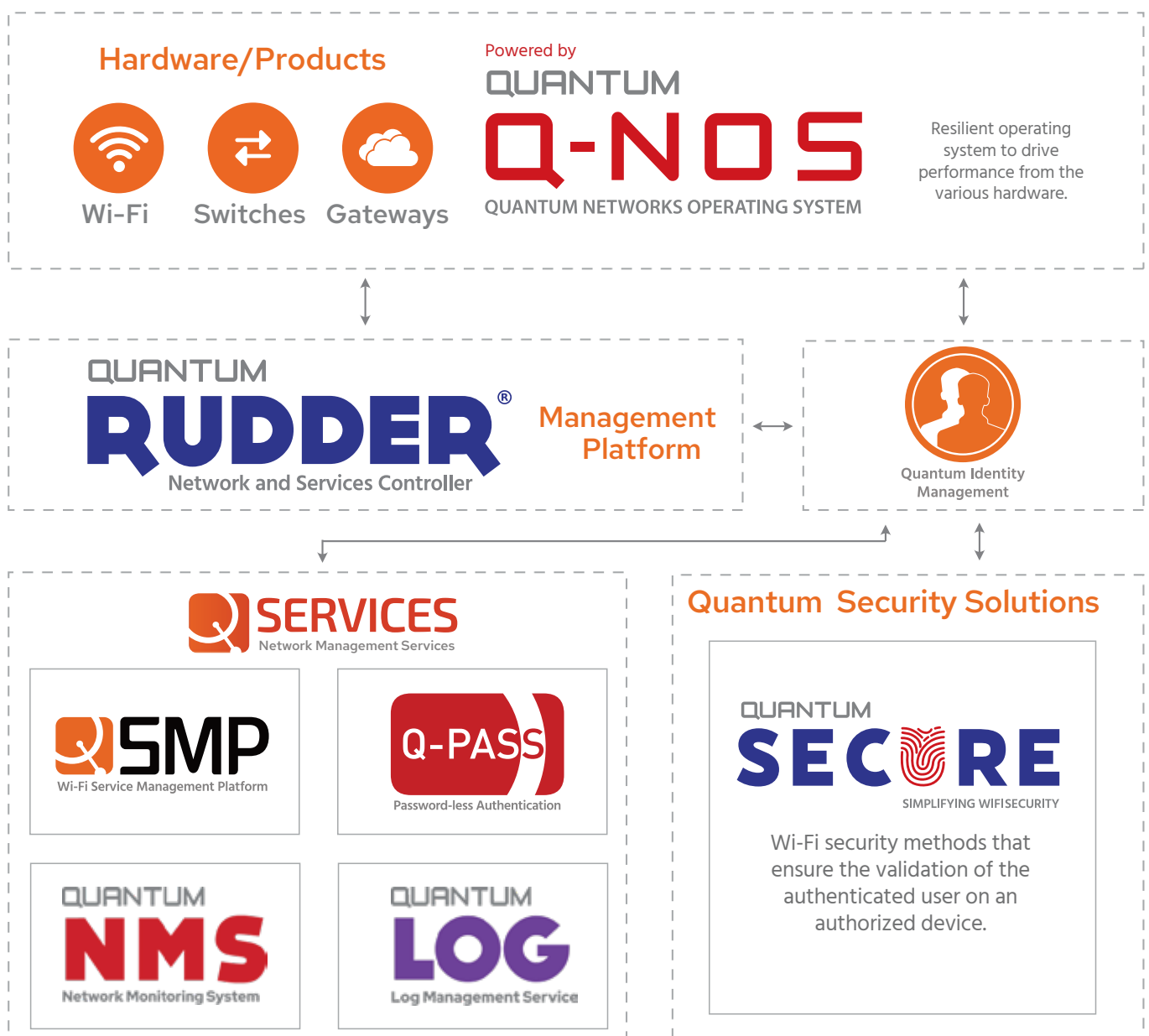


Gateways



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.





### 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



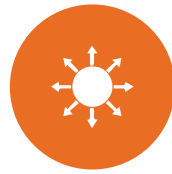
# Switches



**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

Routing Protocols

Management Stacks

VLAN Diversity

Network Security

## Internet Service Providers (ISPs) | Cloud Service Providers



Advanced Layer-3  
Routing Protocols

Enhanced Security  
Measures

10G 40G 100G

### Core Switches

Quality of Service (QoS)  
Optimization

Comprehensive VLAN  
Support

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



25G 100G 400G

### Data Centre Switches

Scalability

Minimal Latency

Fast Data Transfer

Robust Security  
Protocols

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

48x1G RJ45  
Downlinks

4x1G/10G  
Fiber Uplinks

740 Watts  
Power Budget

### QN-SW-225-48

48x1G RJ45  
Downlinks

4x1G/10G  
Fiber Uplinks

Non-PoE

## QN-SW-225-24 PORT



### QN-SW-225-24FP

24x1G RJ45  
Downlinks

4x1G/10G  
Fiber Uplinks

740 Watts  
Power Budget

### QN-SW-225-24P

24x1G RJ45  
Downlinks

4x1G/10G  
Fiber Uplinks

400 Watts  
Power Budget

### QN-SW-225-24

24x1G RJ45  
Downlinks

4x1G/10G  
Fiber Uplinks

Non-PoE

## QN-SW-225-16 PORT



### QN-SW-225-16P-2SFPP

16x1G RJ45  
Downlinks

2x1G/10G  
Fiber Uplinks

240 Watts  
Power Budget

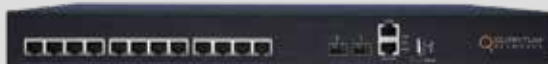
### QN-SW-225-16-4SFPP

16x1G RJ45  
Downlinks

4x1G/10G  
Fiber Uplinks

Non-PoE

## QN-SW-225-12 PORT



### QN-SW-225-12P-2SFPP

12x1G RJ45  
Downlinks

2x1G/10G  
Fiber Uplinks

188 Watts  
Power Budget

### QN-SW-225-12-2SFPP

12x1G RJ45  
Downlinks

2x1G/10G  
Fiber Uplinks

Non-PoE

## QN-SW-225-8 PORT



### QN-SW-225-8FPU

8x1G RJ45  
Downlinks

2x1G/10G  
Fiber Uplinks

240 Watts  
Power Budget

### QN-SW-225-8FP

8x1G RJ45  
Downlinks

2x1G/10G  
Fiber Uplinks

240 Watts  
Power Budget

### QN-SW-225-8P

8x1G RJ45  
Downlinks

2x1G/10G  
Fiber Uplinks

120 Watts  
Power Budget

### QN-SW-225-8F

8x1G  
Fiber Uplinks

2x1G/10G  
Fiber Uplinks

### QN-SW-225-8

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

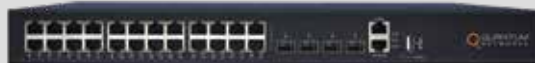
QN-SW-230-48

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

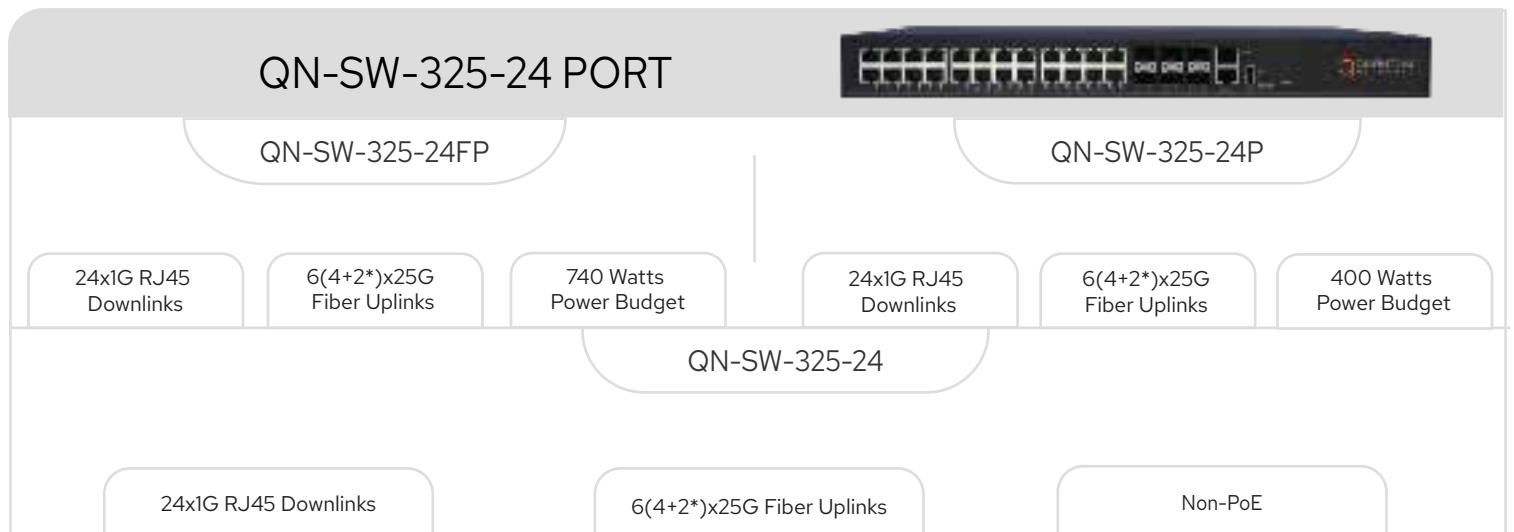
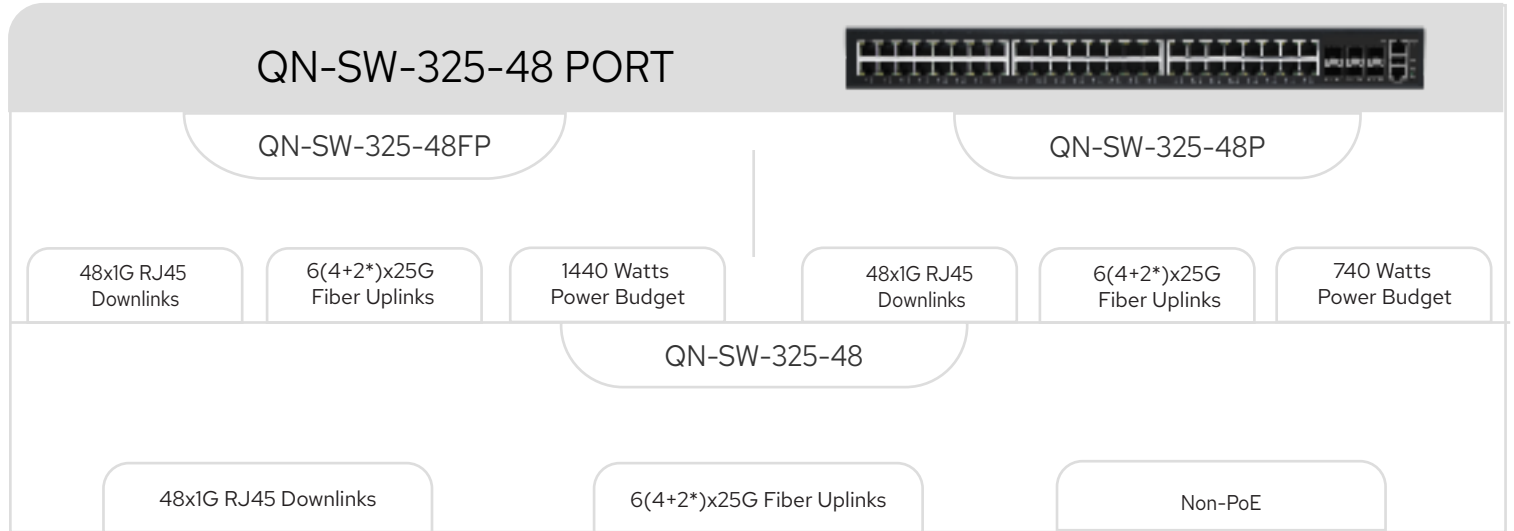
QN-SW-230-24

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

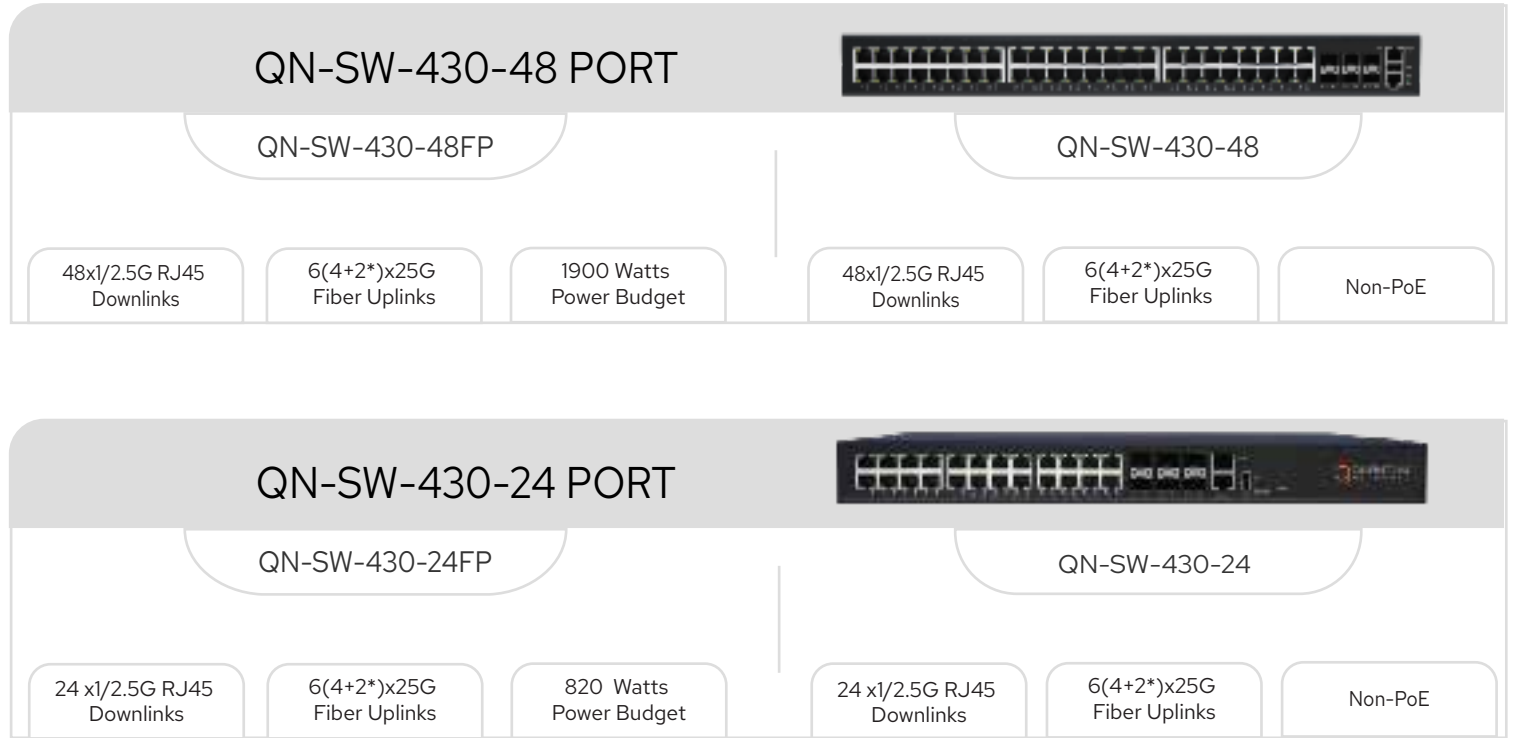
  

QN-SW-425-8 PORT					
QN-SW-425-8FP			QN-SW-425-8		
8x1/2.5G RJ45 Downlinks	2*x10G Fiber Uplinks	240 Watts Power Budget	8x1/2.5G RJ45 Downlinks	2*x10G Fiber Uplinks	Non-PoE

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

# Enterprise

## QN-SW-430-Series



**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



# 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



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

10G



1000 BASE-T  
Copper



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

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

1G



\*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

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+



Zen Exim Pvt. Ltd.  
2/4 Floor, Shakti 404, S.G. Highway,  
Ahmedabad – 380 054, Gujarat, India.

[www.qntmnet.com](http://www.qntmnet.com) | 18001231163 | [sales@qntmnet.com](mailto:sales@qntmnet.com)