![Quantum Networks logo]

QUANTUM®
PRODUCT PORTFOLIO

WiFi NINJA

SWITCHES ATLAS

GATEWAYS GUARDIAN

OMNI ASTRA

QUANTUM®

QUAD FORCE
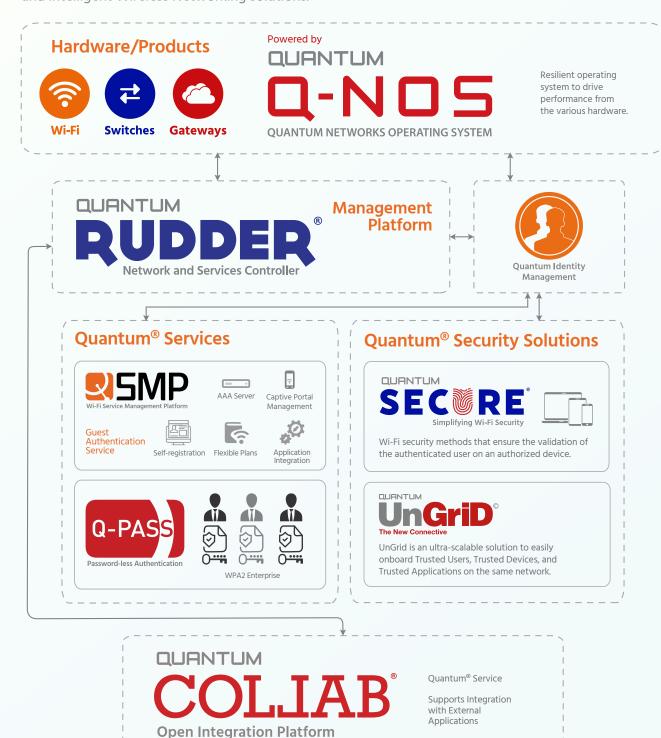
Superheroes of Superconnectivity

QUANTUM® NETWORKS

Quantum® Networks (SG) Pte. Ltd. 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, SD-WAN 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.

Hardware/Products

Wi-Fi **Switches** **Gateways**

Powered by
QUANTUM
Q-NOS
QUANTUM NETWORKS OPERATING SYSTEM

Resilient operating system to drive performance from the various hardware.

QUANTUM
RUDDER®
Network and Services Controller

Management Platform

Quantum Identity Management

Quantum® Services

SMP
Wi-Fi Service Management Platform

AAA Server

Captive Portal Management

Guest Authentication Service

Self-registration

Flexible Plans

Application Integration

Q-PASS
Password-less Authentication

WPA2 Enterprise

Quantum® Security Solutions

QUANTUM
SECURE®
Simplifying Wi-Fi Security

Wi-Fi security methods that ensure the validation of the authenticated user on an authorized device.

QUANTUM
UnGriD©
The New Connective

UnGrid is an ultra-scalable solution to easily onboard Trusted Users, Trusted Devices, and Trusted Applications on the same network.

QUANTUM
COLIAB®
Open Integration Platform

Quantum® Service

Supports Integration with External Applications

QUANTUM®
N E T W O R K S

QUANTUM
Q-NOS™
QUANTUM NETWORKS OPERATING SYSTEM

Network operating system powers all the networking equipment of Quantum®.
The operating system is designed to deliver reliability, manageability, security, and scalability.
Q-NOS™ is our foundation for the next generation cloud-managed networking, making networking simple and intelligent. Q-NOS™ works in tandem with Quantum® Rudder.

our hardware, our software, performance guaranteed.

QUANTUM
ACE
Network Management App

A Quantum® mobile application for on-premises Quantum® wireless networks to monitor user real-time wireless network performance and troubleshoot client and RF issues with mobile tools. Quantum® Ace is enabled with an OS upgrade feature to upgrade the latest version of Access Point software.

have phone, will manage network!

QUANTUM
SECURE®
Simplifying Wi-Fi Security

Quantum® Secure is the leading-edge security technology that creates advanced locking and protection for Wi-Fi networks. It is a perfect fix for all loopholes and challenges in the existing Wi-Fi security methods by ensuring the validation of the authenticated user on an authorized device.

authenticated user + authorized device
= unparalleled safety.

QUANTUM
COLIAB®
Open Integration Platform

This is our platform for delivering custom-made solutions that are industry-specific.
It is the industry's first multi-OEM single solution collaborative platform where we create bespoke business-centric network solutions.

your industry, your needs > we deliver.

Quantum Identity Management

Quantum® Identity Management (QIM) helps create users and required user groups; administrators can then use these created users and user groups' data to assign them Quantum® services like Secure™, Secure+™, and UnGrid™ as per their requirements.

ADVANTAGE QUANTUM®

Unified Management

- Wi-Fi.
- Switching.
- SD-WAN.
- VPN Solutions.

Scalability

- Management for up to 10000 Quantum devices.
- No limitation on user-management.

Identity Management

- User Database Management.
- Roles/User Group Management.
- User Device Management.
- Mac randomization solution.

Solution-based

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

Total Cost of Ownership

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

Support Standards

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

WiFi
N I N J A

- Offers wide range of indoor, outdoor and in-room Wi-Fi 6 Access Points.

- 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.

ACCESS POINTS INDOOR

QN-I-870

5 GbE Uplink

5 GHz: 8x8 2.4 GHz: 4x4

Upto 5.9 Gbps Data Rate

QN-I-490

2.5 GbE Uplink

5 GHz: 4x4 2.4 GHz: 4x4

Upto 5.9 Gbps Data Rate

QN-I-470

2.5 GbE Uplink

5 GHz: 4x4 2.4 GHz: 2x2

Upto 2.9 Gbps Data Rate

QN-I-280

2.5 GbE Uplink

5 GHz: 2x2 2.4 GHz: 2x2

Upto 3 Gbps Data Rate

![Quantum Networks logo]

QN-I-270

2.5 GbE Uplink

5 GHz: 2x2 2.4 GHz: 2x2

Upto 1.7 Gbps Data Rate

QN-I-210-PLUS

1 GbE Uplink

5 GHz: 2x2 2.4 GHz: 2x2

Upto 1.7 Gbps Data Rate

QN-I-210

1 GbE Uplink

5 GHz: 2x2 2.4 GHz: 2x2

Upto 1.7 Gbps Data Rate

QN-I-220

1 GbE Uplink

5 GHz: 2x2 2.4 GHz: 2x2

Upto 1.2 Gbps Data Rate

ACCESS POINTS IN-ROOM

QN-H-245

1 GbE Uplink

5 GHz: 2x2 2.4 GHz: 2x2

Upto 2.9 Gbps Data Rate

QN-H-220

1 GbE Uplink

5 GHz: 2x2 2.4 GHz: 2x2

Upto 1.2 Gbps Data Rate

ACCESS POINTS OUTDOOR

QN-O-490

2.5 GbE Uplink	**5 GHz: 4x4 2.4 GHz: 4x4**	**Upto 5.9 Gbps Data Rate**

QN-O-240

1 GbE Uplink	**5 GHz: 2x2 2.4 GHz: 2x2**	**Upto 1.8 Gbps Data Rate**

QN-O-230

1 GbE Uplink	**5 GHz: 2x2 2.4 GHz: 2x2**	**Upto 1.2 Gbps Data Rate**

SWITCHES
ATLAS
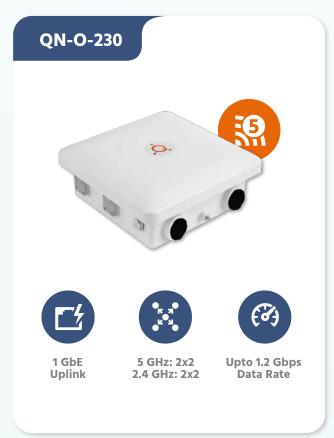
- Experience single point control of network management with Quantum® Rudder cloud-based solution and Quantum® Ace mobile application.

- We provide enterprise and industrial switches with redundant power supplies and full PoE support, as well as core switches supporting hot-pluggable power supplies and fans with lightning-fast 100G fiber connectivity.

- We offer switches from 4 to 48 ports with power budgets ranging from 130 to 1500 Watts, according to your solution needs.

SWITCHES ENTERPRISE SWITCHES

QN-SW-225-8

8x1 GbE Ports

2x10 GbE SFPP Uplink Ports

Non PoE

QN-SW-225-8P

8x1 GbE Ports

2x10 GbE SFPP Uplink Ports

PoE

PoE Budget 150 Watts

QN-SW-225-8F

8x1 GbE SFP Ports

2x10 GbE SFPP Uplink Ports

56 Gbps Switching Capacity

QN-SW-225-8FP

8x1 GbE Ports

2x10 GbE SFPP Uplink Ports

PoE

PoE Budget 240 Watts

SWITCHES ENTERPRISE SWITCHES

QN-SW-225-24

24x1 GbE Ports

4x10 GbE SFPP Uplink Ports

Non PoE

QN-SW-225-24P

24x1 GbE Ports

4x10 GbE SFPP Uplink Ports

PoE Budget 410 Watts

QN-SW-225-24FP

24x1 GbE Ports

4x10 GbE SFPP Uplink Ports

PoE Budget 740 Watts

QN-SW-225-48

48x1 GbE Ports

4x10 GbE SFPP Uplink Ports

Non PoE

SWITCHES ENTERPRISE SWITCHES

QN-SW-225-48P

48x1 GbE Ports

4x10 GbE SFPP Uplink Ports

PoE

PoE Budget 740 Watts

QN-SW-230-24P   RPS

24x1 GbE Ports

4x10 GbE SFPP Uplink Ports

PoE

PoE Budget 410 Watts

*RPS: Redundant Power Supply
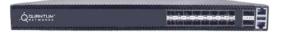
SWITCHES CORE SWITCHES

QN-CS-1610GF

1+1 Hot Pluggable Power Supply

16x10 GbE SFPP Ports

2x100 GbE Uplink Ports

720 Gbps Switching Capacity

QN-CS-2410GF

1+1 Hot Pluggable Power Supply

24x10 GbE SFPP Ports

6x100 GbE Uplink Ports

1680 Gbps Switching Capacity

QN-CS-4810GF

1+1 Hot Pluggable Power Supply

48x10 GbE SFPP Ports

6x100 GbE Uplink Ports

2160 Gbps Switching Capacity

SWITCHES INDUSTRIAL SWITCHES

QN-IS-220-4FP

Managed by Rudder™

4x1 GbE Ports | **2x1 GbE Uplink Ports** | **PoE Budget 120 Watts**

QN-IS-225-8

Managed by Rudder™

8x1 GbE Ports | **2x10 GbE SFPP Uplink Ports** | **Non PoE**

QN-IS-225-8FP

Managed by Rudder™

8x1 GbE Ports | **2x10 GbE SFPP Uplink Ports** | **PoE Budget 240 Watts**

QN-IS-220-8FP

Managed by Rudder™

8x1 GbE Ports | **2x1 GbE SFP Uplink Ports** | **PoE Budget 240 Watts**

SWITCHES QASA SWITCHES

QQ-SW155-G8-2SFP

8x1 GbE Non PoE Ports

2x1 GbE SFP Ports

Web Managed

QQ-SW155-G8P-2SFP

8x1 GbE PoE Ports

2x1 GbE SFP Ports

Web Managed

QQ-SW155-G16-2SFPP

16x1 GbE Non PoE Ports

2x10 GbE SFPP Ports

Web Managed

QQ-SW155-G24-4SFPP

24x1 GbE Non PoE Ports
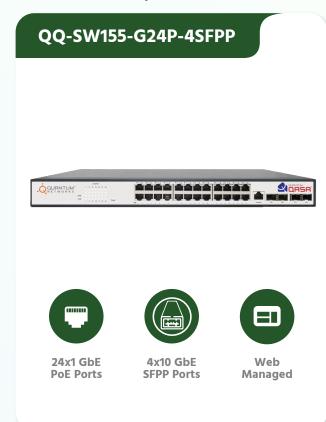
4x10 GbE SFPP Ports

Web Managed

SWITCHES QASA SWITCHES

QQ-SW155-G24P-4SFPP

24x1 GbE PoE Ports

4x10 GbE SFPP Ports

Web Managed

QQ-SW115-G5

5x1 GbE Ports

1 GbE PoE Out Port

Web Managed

GATE WAYS
GUARDIAN
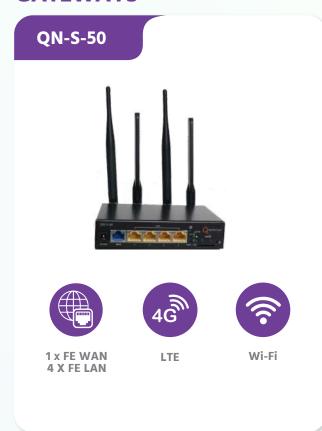
- Quantum® Networks Gateway supports multiple WAN.

- VPN for branch connectivity and link load balancing.

- ANYWHERE – ANYTIME MANAGEABILITY of Gateway devices can be handled centrally using Quantum® Rudder Cloud or Quantum® Ace mobile application.

GATEWAYS

QN-S-50

**1 x FE WAN
4 X FE LAN**

LTE

Wi-Fi

QN-S-100

**5 WAN
Interface Upto
4xETH, 1xUSB**

**Link Load
Balancer**

**VPN
Connectivity**

QN-S-200

**WAN Interface
Upto 2xETH,
2xUSB**

**Multiple VLAN
Network**

**6xETH, 2xSFPP
LAN Interface**

OMNI
A S T R A

- QSMP provides secure, scalable, user friendly Wi-Fi guest authentication services.

- QPASS allows only authenticated devices to access network using wireless or wired network.

- Quantum® Rudder is a cloud-based solution and Quantum® Ace is a mobile application that allows users to manage and access their network from anywhere.

- Quantum® UnGrid is a path-breaking connectivity solution architecture for today's heterogeneous networks of Cloud Servers/Applications, WFH employees, consultants, Fog computing, and growing IoT devices.

OMNI ASTRA (SERVICES)

Currently, along with product rubrics such as Indoor Access Points, Outdoor Access Points, SD-WAN Gateways, and Ethernet Switches, Quantum® offers the following network management services under the umbrella of Omni Astra:

QUANTUM RUDDER®
Network and Services Controller

To better manageability, we created Quantum® Rudder, a cloud-managed solution that allows users to manage the entire network from anywhere on the globe. Your network management is no longer hostage to place or time. Access your network, manage it, tweak it, troubleshoot – all from anywhere.

QSMP
Wi-Fi Service Management Platform

QSMP simplifies and aligns the process of onboarding your guests on a Wi-Fi network. It provides cloud-based, traditional, fully managed Wi-Fi services to ensure secure, scalable, stress-free Wi-Fi services.

Q-PASS
Password-less Authentication

QPASS is a cloud-hosted solution to transition from password-based authentication to password-less certificate-driven authentication. QPASS securely onboard users for Wi-Fi, Wired networks and VPN Services.

QUANTUM UnGriD©
The New Connective

A path-breaking connectivity solution architecture for today's heterogeneous networks of Cloud Servers/Applications, work-from-home employees, consultants, Fog computing, and growing IoT devices.
It is an ultra-scalable solution to easily onboard Trusted Users, Trusted Devices, and Trusted Applications on the same network. Quantum® UnGrid is totally elastic to scale - from a small workforce to thousands of users - instantly.

QUANTUM
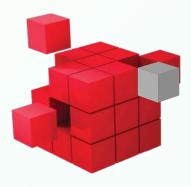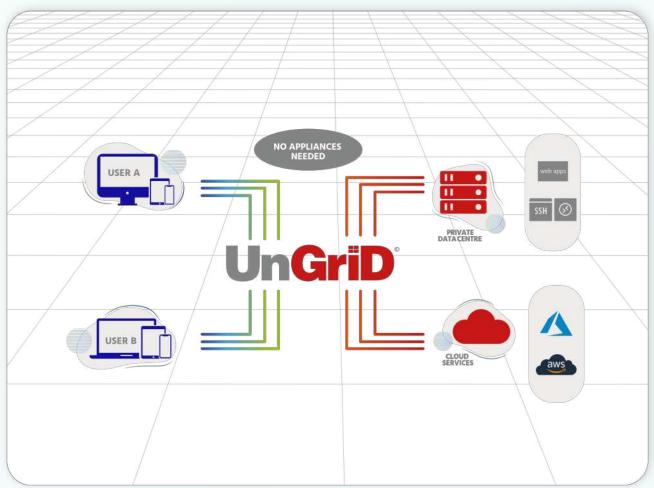# UnGriD ©
The New Connective

Quantum® UnGrid is a path-breaking connectivity solution architecture for today's heterogeneous networks of Cloud Servers/Applications, WFH employees, consultants, Fog computing, and growing IoT devices.

It is an ultra-scalable solution to easily onboard Trusted Users, Trusted Devices, and Trusted Applications on the same network. Quantum® UnGrid is totally elastic to scale - from a small workforce to thousands of users - instantly.

All this comes with secure infrastructure – giving you perpetual guarantee that the service is in place and running. Quantum® UnGrid ensures seamless connectivity of your teams from anywhere, anytime. Quantum® UnGrid is ultra-scalable, has no hardware dependencies, possesses optimized bandwidth utilization, is supported on all device platforms, and promises ensured data security.

KEY HIGHLIGHTS

- Ultra-scalable.

- No hardware dependencies.

- Optimized bandwidth utilization.

- Supported on all device platforms.

- Ensured data security.

*Available in select countries.

QUANTUM NETWORKS

NETWORKS