



UNIVERGE® QX-S6500 Series

Enhanced Chassis Switches Designed for the Enterprise Core

Does your network provide the flexibility that your organization needs to grow? To keep your network – and your business – competitive, you need advanced chassis-based switches that meet the network’s increased demands while supporting industry-standard connectivity.

NEC’s UNIVERGE QX-S6500 Series chassis-based switches can provide your network the support it needs to grow. As the central connection point for your network’s digital information flow, they provide the modular, manageable switching solutions required to meet the current network demand for high-quality voice, video and data with security, performance and investment protection.

At a Glance

- Two models with a carrier-class range of features
- High performance and bandwidth with full system security and QoS
- Out-of-the-box reliability and flexibility
- Robust management capabilities

Two Models with a Carrier-Class Range of Features

The QX-S6500 Series offers models designed for both small and medium core functionality. The QX-S6502 model meets the needs of small branch offices and educational campuses, while the QX-S6506R is customized for central corporate LANs and school campus aggregation. Both models optimize network performance and provide network design flexibility and a wide range of configuration options. They also include a number of features – all available on the base product with no activation key required to unlock them – typically found only in carrier-class hardware. They enable your network to separate most types of data in order to maintain its integrity, quality and timeliness.

High Performance and Bandwidth with Full Security and QoS

QX-S6500 Series Switches efficiently handle high network traffic through their very high port density and their tremendous aggregate data switching and forwarding rates. Because they were designed with non-blocking architecture and advanced ASICs, they can switch packets at wire-speed. State-of-the-art industry-standard network security protocols keep your data secure and your applications running smoothly. Full per port Quality of Service (QoS) and priority queuing ensure that your voice and traditional data systems coexist on the same network without adversely affecting one another.

Out-of-the-Box Reliability and Flexibility

The QX-S6500 Series protects your initial investment by giving your organization's network the flexibility it needs to expand and evolve. You can replace line cards with those of higher port densities – or even different interface types – to interconnect end devices and remote wiring closets. These switches also maximize your network's system availability by supplying power supply, processing engine and management access. The QX-S6506R model even permits dual switching engines to backup one another and provide load-balancing and performance enhancement for the entire switch.

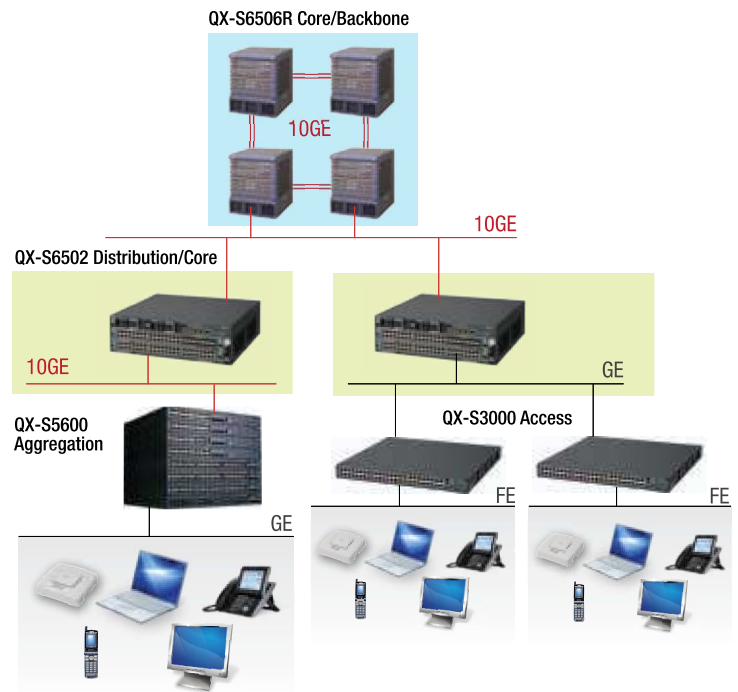
Robust Management Capability

The QX-S6500 Series maximizes your network's efficiency by providing precise management of all network functions. They support full SNMP communication for management through standard NMS software and many other means.

Specifications

Features	QX-S6502	QX-S6506R
Number of Line Card Slots:	2	6
Maximum Access Ports	96 GbE / 8 x 10GbE	288 GbE / 24 x 10GbE
Switching Speed	192 Gbps (non-Blocking)	768 Gbps (non-Blocking)
Forwarding Speed	144 Mpps	432 Mpps
Flow Control 802.3x	Yes	Yes
LACP 802.3ad, GVRP, GMRP, GARP	Yes	Yes
Number of VLANs:	4K	4K
Guest, Protocol, & Voice VLAN:	Yes	Yes
Spanning Tree (802.1D,w,s)	Yes	Yes
CoS 802.1p and Diffserv	8 queues/port	8 queues/port
QoS Levels/Port:	802.1X, ACL, Unicast MAC Filter	802.1X, ACL, Unicast MAC Filter
Security:	802.1X, ACL, Unicast MAC Filter	802.1X, ACL, Unicast MAC Filter
Admin Protocols:	ARP, FTP, TFTP	ARP, FTP, TFTP
Management:	Telnet, SSH, SNMP, CLI	Telnet, SSH, SNMP, CLI
Port Mirroring, Traffic Monitoring:	Yes	Yes
Routing	RIP v1 & 2, OSPF, IS-IS, BGP, Static	RIP v1 & 2, OSPF, IS-IS, BGP, Static

Core/Distribution Configuration



Core System Features:		
CPU, Power Supply, Cooling Fan Redundancy:	Yes	Yes
Distributed Data Forwarding:	Yes	Yes
Physical Specifications		
Power	300Watts	800Watts
Dimensions H" x W" x D" (mm):	5.2"x17.2"x15.8"; (131 x 436 x 400 mm)	20.9"x17.2"x18.9"; (530.6 x 436 x 480 mm)
Weight lbs. (kgs)	< 44 lbs. (20kg.)	<176 lbs. (80kg.)
Temperature Range F (C)/ Humidity Range	32F – 113F (0C-45C)/ 10%-90%	32F – 113F (0C-45C)/ 10%-90%
Safety and Compliance Specifications:		
FCC Part 15 Class A, UL 60950 2006-07-07	Yes	Yes
EN 55024, EN 55022 Class A	Yes	Yes
ICES-003 Class A, CISPR 22 Class A	Yes	Yes

Empowered by Innovation



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