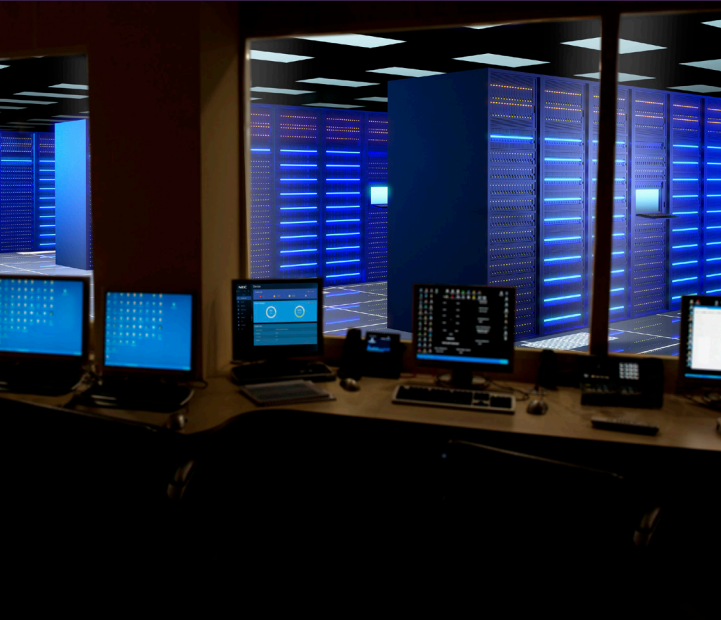\Orchestrating a brighter world

NEC

QX-S5200 Series PoE+ Gigabit Ethernet Switches

At a Glance

- Versatile Power over Ethernet Plus (PoE+) switches that can be utilized in SDN (OpenFlow) network environments as edge devices or standalone

- Connects to IP telephones or other devices that require PoE

- Supports NEC's ProgrammableFlow Controller Edge Automation capability which:

  ◇ Extends some of the SDN functions to non-OpenFlow switches

  ◇ Simplifies configuration and management of switch

- Saves time and expense by not having to install electrical power wiring

- Offers the flexibility of placing PoE devices where needed most and ability to relocate them easily

- Can be managed by the SDN Controller, WebGUI management console or Command Line Interface (CLI)

Overview

NEC's QX-S5200 Series Power over Ethernet Plus (PoE+) Gigabit switches offer businesses the flexibility to easily deploy PoE devices wherever needed. These versatile switches can be used as edge devices in a Software Defined Network (SDN) or they can be standalone. The QX-S5200 series fully supports NEC's ProgrammableFlow Controller (PFC) Edge Switch Automation capability, and can be configured and managed directly through the PFC's Graphical User Interface (GUI).

Since a PoE switch enables network cables to carry electrical power, installing additional power outlets is not required – saving time and expense. Another advantage is scalability – PoE enables quick and efficient deployment of network devices.

| Main Product Features

- 24 and 48 PoE+ 10/100/1000 Ethernet Ports (can connect to IP phones and other PoE devices that require up to 30W)

- 4 Gigabit SFP Uplink ports

- Support for L2 and L3 forwarding, QoS, Security, Multicast, & VLAN

- Support Static and RIP policy-based Routing functions

- CLI and WebGUI management console

- SDN compatible (OpenFlow version 1.3.1)

- High Speed stack connection function (Intelligent Resilient Framework)
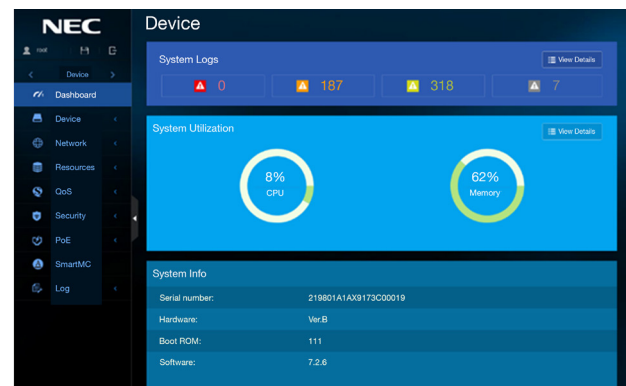
QX-S5200 Series WebGUI

Specifications

Features			S5224GT-4X-PW	S5248GT-4X-PW
Performance	Switching capacity [bps]		128.0G	176.0G
	Transfer rate [pps]		95.2M	130.9M
	Switching method		S&F	
	MAC address table		16K	
	Routing table (IPv4/IPv6)		512/256	
Interface	ARP table		1K	
	10Gbe	SFP slot SFP+ slot	- 4	- 4
	40Gbe	QSFP+ slot	-	-
	Console Port		√	√
PoE+	Number of power feedable interfaces		24	48
	Power feeding standard		IEEE802.3at	
	Maximum power supply amount per port		30.0W	
	Maximum power supply amount per device		370.0W	
IRF	IRF stack version		IRFv2	
	Maximum number of IRF stacks		6	
	MAD/ISSU		√ / -	
VLAN	IEEE802.1Q		√	
	Port VLAN		√	
	Protocol VLAN		√	
	Voice VLAN		√	
	Maximum number of VLAN [number of settable IP addresses]		4094[32]	
	VLAN mapping		√	
	QinQ		√	
Port function	Auto Negotiation/ fixed speed and duplex (full/half)		√ / √	
	Auto MDI • MDIX/ fixed MDIX		√ / √	
	Flow control (IEEE802.3X)		√	
	EAP transmitted/BPDU transmitted		√ / √	
	Port isolate		√	
	Packet transfer suppression		B/M/U	
	Storm-constrain		B/M/U	
	Jumbo Frame (byte)		10000	
	Loop detection (multi port loop supported)		√	
	One-way link detection (DLDP)		√	
	Ethernet OAM (IEEE802.3ah)		√	
	Link aggregation (LACP supported)		√	
Spanning tree			S/R/M/P	
Ring protocol (RRPP)			√	
Packet filter (ACL)			√	
IPv6 management			√	
QoS	PQ		√	
	WRR		√	
	Bandwidth control		LR/CAR/GTS	
	Trust/Marking		√ / √	
	Number of QoS classes		8	

√ = Available

- = Not Available

Specifications (cont.)

Features		S5224GT-4X-PW	S5248GT-4X-PW
Security	802.1X authentication	√	
	MAC address authentication	√	
	Web authentication	√	
	Triple authentication	√	
	Port security	√	
	Dynamic VLAN	PORT/MAC	
Routing related	Local authentication	√	
	Static	√	
	RIP	v1/v2/ng	
	Policy-Based Routing	√	
	VRRP	√	
	BFD	√	
Multicasting	Multicast VLAN	√	
	IGMPv1/v2/v3 snooping	√	
	MLDv1/v2 snooping	√	
SDN Ready	SDN supported	Edge Automation and OpenFlow 1.3.1	
	Maximum flow entry	500	
Management function	telnet/ssh/WEB console	√ / √ / √	
	FTP • TFTP client/FTP server	√ / √	
	LLDP	√	
	DHCP	C/R/SV/SN	
	NTP client/NTP server	√ / -	
	Syslog	√	
	Log file	√	
	SNMPv1/v2c/v3	√	
	Standard MIB, Private MIB	√	
	RMON	√	
	sFlow	√	
	Port mirroring	√	
Eco function	Scheduled task	√	
	IEEE802.3az	√	
Physical specification	External dimension (W x D x H) [mm]	440 x 300 x 43.6	440 x 360 x 43.6
	Weight	5.4kg	6.4kg
	AC power input (50/60Hz)	100~240V (90~264V)	
	Maximum power consumption (PoE fed power included)	475W	502W
	Fanless	-	-
	Operating temperature/humidity (non-condensing required)	0~45°/10~90%	
VCCI ClassA / RoHS support		√ / √	

√ = Available

- = Not Available

S5224GT-4X-PW

S5248GT-4X-PW

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