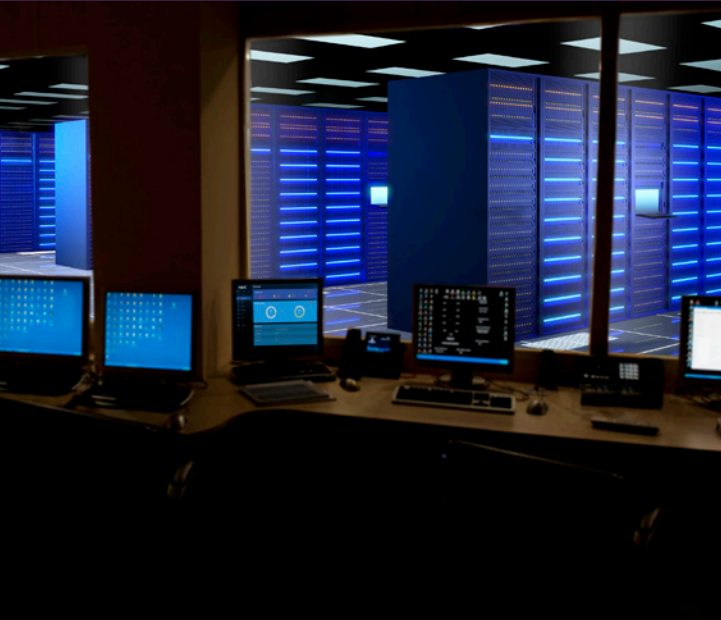\Orchestrating a brighter world

NEC

QX-S4100 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-S4100 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-S4100 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

- 8, 16, 24 and 48 PoE+ 10/100/1000 Ethernet Ports (can connect to IP phones and other PoE devices that require up to 30W)

- 2 or 4 Gigabit SFP Uplink ports

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

- CLI and WebGUI management console

QX-S4100 Series WebGUI

Specifications

Features			S4108GT-2G-PW	S4116GT-4G-PW	S4124GT-4G-PW	S4148GT-4G-PW
Performance		Switching capacity [bps]	20.0G	40.0G	56.0G	104.0G
		Transfer rate [pps]	14.8M	29.7M	41.6M	77.3M
		Switching method	S&F			
		MAC address table	16K			
		Routing table (IPv4/IPv6)	64/64			
		ARP table	256			
Interface	1Gbe	10/100-1000BASE-T	8	16	28	48
		SFP slot	2	4	4c	4
	Console Port		√	√	√	√
PoE+		Number of power feedable interfaces	8	16	24	48
		Power feeding standard	IEEE802.3at			
		Maximum power supply amount per port	30.0W			
		Maximum power supply amount per device	125.0W	170.0W	370.0W	
IRF		IRF stack version	IRFv2			
		Maximum number of IRF stacks	4			
		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		S4108GT-2G-PW	S4116GT-4G-PW	S4124GT-4G-PW	S4148GT-4G-PW
Security	802.1X authentication		√		
	MAC address authentication		√		
	Web authentication		√		
	Triple authentication		√		
	Port security		√		
	Dynamic VLAN		PORT/MAC		
	Local authentication		√		
Routing related	Static		√		
	BFD		√		
Multicasting	Multicast VLAN		√		
	IGMPv1/v2/v3 snooping		√		
	MLDv1/v2 snooping		√		
SDN Ready	SDN supported		Edge Automation		
	Maximum flow entry		16K		
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		√		
Physical specification	External dimension (W x D x H) [mm]		330 x 230 x 43.6	440 x 266 x 43.6	440 x 406 x 43.6
	Weight		2.8kg	4.6kg	6.4kg
	AC power input (50/60Hz)		100~240V (90~264V)		
	Maximum power consumption (PoE fed power included)	161W	226W	470W	494W
	Fanless	√		-	
	Operating temperature/humidity (non-condensing required)		0~50°/10~90%		

√ = Available

- = Not Available

S4108GT-2G-PW

S4116GT-4G-PW

S4124GT-4G-PW

S4148GT-4G-PW

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