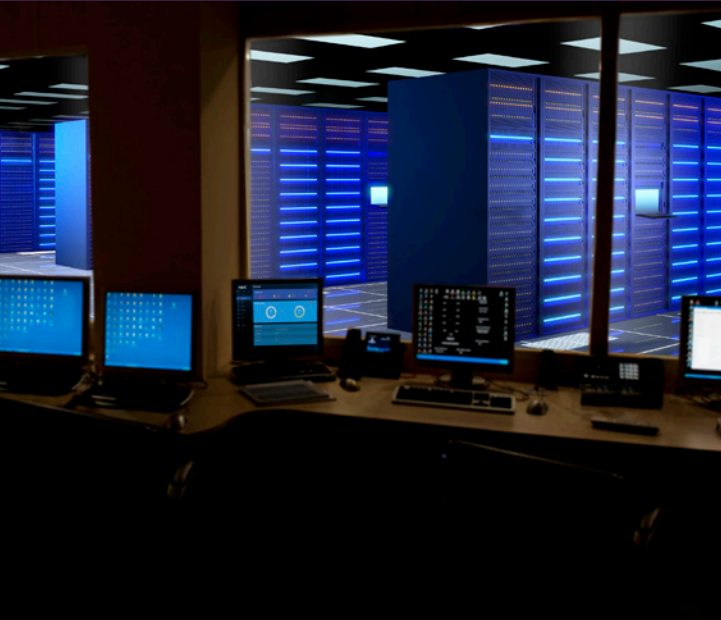\Orchestrating a brighter world

NEC

# QX-S1000 Series non-PoE Gigabit Ethernet Switches

At a Glance

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

- Used to complement the QX-S1000 PoE switches in applications where the PoE feature is not required

- 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

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

Overview

NEC's QX-S1000 Series switches can be used as edge devices in a Software Defined Network (SDN) or they can be standalone. The QX-S1000 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).

Main Product Features

- 8, 16, 24 and 48 10/100/1000 Ethernet Ports

- 2 or 4 Gigabit SFP Uplink ports

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

- CLI and WebGUI management console
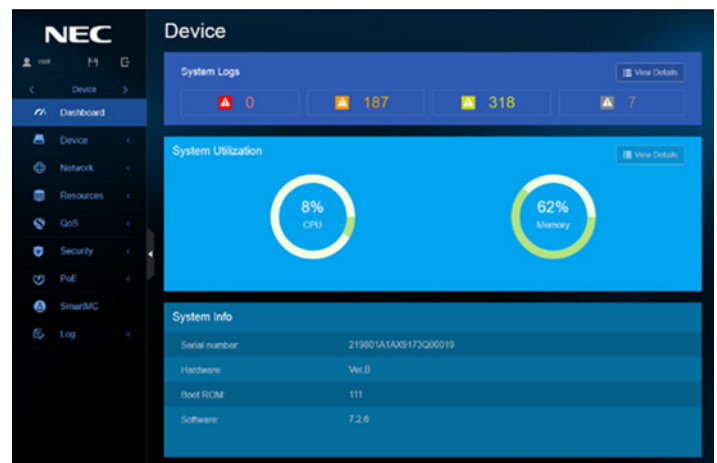
QX-S1000 Series WebGUI

Specifications

Features			S1008GT-2G	S1016GT-4G	S1024GT-4G	S1048GT-4G
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		8K			16K
	Routing table (IPv4/IPv6)		-			
	ARP table		32			
Interface	1Gbe	10/100-1000BASE-T	8	16	28	48
		SFP slot	2	4	4	4
	Console Port		√	√	√	√
PoE+	Number of power feedable interfaces		-	-	-	-
	Power feeding standard		-			
	Maximum power supply amount per port		-			
	Maximum power supply amount per device		-			
IRF	IRF stack version		-			
	Maximum number of IRF stacks		-			
	MAD/ISSU		-			
VLAN	IEEE802.1Q		√			
	Port VLAN		√			
	Protocol VLAN		-			
	Voice VLAN		√			
	Maximum number of VLAN		4094			
	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		-			
	Jumbo Frame (byte)		9600			
	Loop detection (multi port loop supported)		√			
	One-way link detection (DLDP)		√			
	Ethernet OAM (IEEE802.3ah)		-			
	Link aggregation (LACP supported)		√			
Spanning tree			S/R/M			
Ring protocol (RRPP)			-			
Packet filter (ACL)			√			
IPv6 management			-			
QoS	PQ		√			
	WRR		√			
	Bandwidth control		LR			
	Trust/Marking		√			
	Number of QoS classes		8			

√ = Available

- = Not Available

Specifications (cont.)

Features		S1008GT-2G	S1016GT-4G	S1024GT-4G	S1048GT-4G
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		8K		16K
Management function	telnet/ssh/WEB console			√ / √ / √	
	FTP • TFTP client/FTP server			√ / √	
	LLDP			√	
	DHCP			C/SV	
	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]	266 x 161 x 43.6	440 x 169 x 43.6		440 x 238 x 43.6
	Weight	1.0kg	2.1kg	2.2kg	3.5kg
	AC power input (50/60Hz)		100~240V (90~264V)		
	Maximum power consumption (PoE fed power included)	12W	20W	28W	47W
	Fanless		√		-
	Operating temperature/humidity (non-condensing required)		0~50°/10~90%		

√ = Available

- = Not Available

S1008GT-2G

S1016GT-4G

S1024GT-4G

S1048GT-4G

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