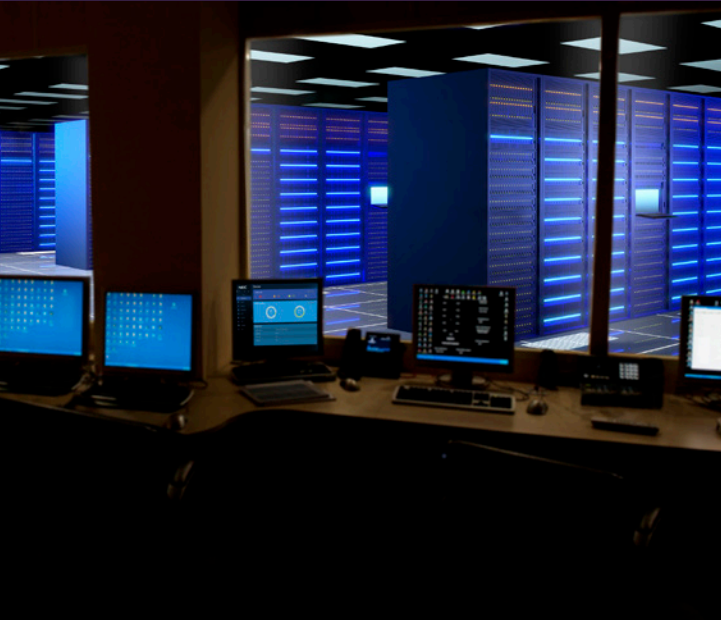\Orchestrating a brighter world

NEC

# QX-S5100 Series non-PoE Gigabit Ethernet Switches

At a Glance

- Versatile switches that can be utilized in both traditional and SDN network environments as edge devices or standalone
- Supports NEC's Network Operation Engine that provides network automation and virtualization managed through an easy-to-use management interface. It simplifies day to day network management with drag-and-drop network configuration and high-availability resulting in a secure, flexible and centrally configurable Enterprise Campus Network.
- Can be managed by the NOE Controller, WebGUI management console or Command Line Interface (CLI)

Overview

These versatile switches can be used as edge devices in a traditional or Software Defined Network (SDN) network. The QX-S5200 series fully supports NEC's Network Operation Engine (NOE).

Main Product Features

- 24 and 48 10/100/1000 Ethernet Ports
- 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 (NOE).
- High Speed stack connection function (Intelligent Resilient Framework
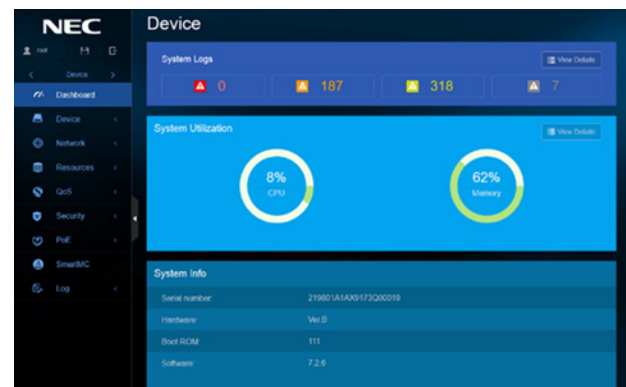
QX-S5100 Series WebGUI

Specifications

Features			S5124GT-4X	S5148GT-4X
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		--	--
	Power feeding standard		---	
	Maximum power supply amount per port		---	
	Maximum power supply amount per device		---	
IRF	IRF stack version		IRFv2	
	Maximum number of IRF stacks		6	
	MAD/ISSU		√/ -	
VLAN	IEEE802.1Q		√	
	Port VLAN		√	
	Protocol VLAN		√	
	Voice VLAN		√	
	Max. 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		S5124GT-4X	S5148GT-4X
Security	802.1X authentication	√	
	MAC address authentication	√	
	Web authentication	√	
	Triple authentication	√	
	Port security	√	
	Dynamic VLAN	PORT/MAC	
Routing related	Local authentication	√	
	Static	√	
	RIP, OSPF	√	
	Policy-Based Routing	√	
	VRRP	√	
	BFD	√	
Multicasting	Multicast VLAN	√	
	IGMPv1/v2/v3 snooping		
	MLDv1/v2 snooping	√	
SDN Ready	SDN supported	Network Operation Engine (NOE)	
	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 160 x 43.6	440 x 230 x 43.6
	Weight	2.5kg	3.5kg
	AC power input (50/60Hz)	100~240V (90~264V)	
	Maximum power consumption *(PoE fed power included)*	24W	44W
	Fanless	-	-
	Operating temperature/humidity *(non-condensing req.)*	0~45°/10~90%	
VCCI ClassA / RoHS support		√ / √	

√ = Available

- = Not Available

S5124GT-4X

S5148GT-4X

About NEC Corporation: NEC Corporation is one of the world's leading providers of Internet, broadband network and enterprise business solutions dedicated to meeting the specialized needs of its diverse and global base of customers. NEC delivers tailored solutions in the key fields of computer, networking and electron devices, by integrating its technical strengths in IT and Networks. The NEC Group employs more than 150,000 people worldwide. For additional information, please visit the NEC home page at: http://www.nec.com