

QX-S5824

10 Gigabit Ethernet Switch



At a Glance

- Versatile Aggregation switches targeted for Enterprise networks
- In conjunction with QX-S5200 series (1G PoE access switch with 10G Ethernet up-links) and QX-S4100 and QX-S1000 series (1G PoE access switch with 1G Ethernet up-links) can be used to implement a complete Enterprise network
- Low cost/port make these switches ideal where high 10 throughput is required, as an example in HCI node aggregation
- Full featured L2 and L3 forwarding
- 24 x 10 Gigabit ports SFP+ and 2 x 40 Gigabit ports QSFP+
- Two slots for one or two (redundant) power supplies and two slots for fan trays
- Two slots for expansion cards:
 - LSWM2QP2P: 2 x 40 Gbps QSFP+ fiber ports
 - LSWM4SP8P: 8 x 1/10 Gbps SFP+ fiber ports

Overview

NEC's QX-5824 10 Gigabit aggregation switches offer businesses the flexibility to easily connect multiple edge switches with 10 Gigabit up-links.

The two 40 Gigabit up-links offer high bandwidth in single or redundant configurations.

Main Product Features

- 24 10 Gigabit ports (SFP+) with two 40 Gbps up-links (QSFP+)
- Support for L2/L3 forwarding, QoS, Security, Multicast, & VLAN
- CLI and WebGUI management console



Specifications

Features		QX-S5824XP-2Q2C
Performance	Switching Capacity [bps]	720.0G
	Transfer Rate [pps]	535.7M
	Switching Method	Store & Forward
	MAC address table	288K
	Routing Table (IPv4/IPv6)	16K/8K
	ARP table	16K
Interface	100 M	10/100BASE-TX
	1GbE	10/100/1000BASE-T
		SFP slot
	10 GbE	1/10GBASE-T
		SFP+ Slot
	40 GbE	QSFP+ Slot
	Number of expansion card slots	2
	Management port	○
	Console port	○
IRF stack	Maximum number of member switches	9
	MAD/ISSU	○/○
VLAN	IEEE 802.1Q	○
	Port VLAN	○
	Protocol VLAN	○
	IP Subnet-based VLAN	○
	Isolate-user-vlan	-
	Voice VLAN	○
	Maximum number of VLAN [number of settable IP addresses]	4094[2048]
	VLAN mapping	○
	QinQ	○
	Auto Negotiation/ fixed speed and duplex (full/half)	○/○
Port Functionality	Auto MDI • MDIX/ fixed MDIX	○/○
	Flow Control (IEEE 802.3X)	○
	EAP transmission/BPDU transmission	○/○
	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 (IEEE 802.3ah)	○
	CFD (IEEE 802.1ag)	○
	Link Aggregation (LACP support)	○
Spanning Tree		S/R/M/P
Ring Protocol (RRPP)		○
Packet Filter (ACL)		○

Specifications (cont.)

Features		QX-S5824XP-2Q2C
IPv6 Management		○
QoS	SPQ/WRR/WFQ/WRED	○/○/○/○
	Bandwidth control	LR/CAR/GTS
	Trust/Marking	○/○
	Number of QoS classes	8
Security	802.1X Authentication	○
	MAC address authentication	○
	Web Authentication	○
	Multi-step authentication	-
	Triple authentication	○
	Port Security	○
	Dynamic VLAN	○
	Local Authentication	○
Routing Related	Static	○
	RIP	v1/v2/ng
	OSPF	v2/v3
	BGP	4/4+
	Policy-Based Routing	○
	VRRP	○
	BFD	○
	VRF-Lite (MCE)	○
Multicast	Multicast VLAN	○
	IGMPv1/v2/v3 snooping	○
	MLDv1/v2 snooping	○
	IGMPv1/v2/v3	○
	MLDv1/v2	○
	PIM-SM/PIM-SSM	○/○
Tunnel		G/44/46/64/66
VXLAN/EVPN		-
NetMeister		-
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	EEE(IEEE802.3az)	-
	Scheduled task	○

Specifications (cont.)

Features	QX-S4314XT-2X
Physical specification	External dimension (W x D x H) [mm]
	43.6 × 440 × 360
	Weight
	≤ 7.0 kg
	AC power input [50/60 Hz] (Rating / Maximum)
	100~240V(90~264V)
	Maximum Power Consumption
	183W
	Power module slot
	2
	Fan tray slot
	2
	Operating temperature/humidity (non-condensing required)
	-5°C~45°C/10~90%
USB Memory	-
VCCI ClassA / RoHS supported	○

Legend: ○ supported
 - not supported

Accessories	Specifications
Power module: PSR450-12A1-N	Input voltage: 100 VAC ~ 240 VAC; 50 / 60 Hz
	Maximum output power: 450 W
	Operating temperature: -10°C ~ 55°C
	Relative humidity: 5% ~ 95%
Fan module: LSWM5FANSCBE	Fan speed: 21000 R.P.M
	Maximum air volume: 26CFM
	Air flow: Front to back
	Maximum power consumption: 27.72W
	Input voltage: 12V
Expansion card: LSWM2QP2P	2 × 40 Gbps QSFP+ fiber ports
Expansion card: LSWM4SP8P	8 × 1/10 Gbps SFP+ fiber ports

QX-S5824XP-2Q2



For further information please contact your local NEC representative or:

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