NS4750-24S-4T-4X

Enterprise-class 24-port SFP Gigabit Switch with 10G uplink

Overview

This enterprise-class network switch is engineered to meet the needs for a distributed fiber optic network system.

When used with IFS™ SFP Media Convertors it provides a flexible and economical distributed IP CCTV solution.

Simple Web Management

Efficient switch management via a simple, yet powerful set of built-in Web Services. The NS4750-24S-4T-4X can easily be programmed for all switch management functions through the easy to use Web interface.

Static Routing

The NS4750-24S-4T-4X supports static routing tables allowing for complex system architectures. Traffic can be routed across different domains or between different VPN. This allows flexible network design and greater control of network traffic, essential for modern IP CCTV systems.

Flexible 10Gbps Ethernet Trunking Solution

10G Ethernet is a big leap in the evolution of Ethernet. Each of the SFP+ slot in the NS4750-24S-4T-4X supports Dual-Speed, 10GBase-SR/LR or 1000Base-SX/LX.

The administrator now can flexibly choose the suitable SFP/SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently.

With its 4-port, 10G Ethernet link capability, the NS4750-24S-4T-4X provides both broad bandwidth and powerful processing capacity.

Standard Features

- 24 SFP Slots Gigabit Ethernet
- 4 shared RJ45 10/100/1000 ports
- 4 SFP+ slots for 10G Uplinks - compatible with S4x Series SFP+
- Support for Static Routing
- Up to 128Gbps non-blocking switch fabric
- 32 Megabits shared data buffer
- 16K MAC address table
- Full Multicast Support for IP Video - up to 255 multicast groups
- VLAN Support - up to 256 VLANs groups
- Advanced Security
- MAC Filtering and Source IP/MAC address port-binding
- Quality of Service (QoS)

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Specifications

Physical Ports

SFP Slots:	SFP Slots (24); 1000Base-SX/LX/BX and 100Base-FX SFP transceiver compatible
10/100/1000Base-T (X) Ports:	RJ45 (4) - Shared with RJ-45 Ports-21 to 24; Compatible with S2x and S3x Series SFP's
SFP+ Slots (1/10G)	SFP+ (4); Compatible with S4x Series SFP+ and S3x Series SFP's
Port Configuration/Speed:	Auto MDI/MDI-X, Auto-negotiate

Switch Performance

Switch Architecture:	Store-and-Forward
Switch Fabric:	128Gbps non-blocking
Switch Throughput:	95Mpps@64Bytes
Mac Address Table:	16K entries
Share Data Buffer:	32Megabits
Jumbo Frame Size:	10Kbytes
Flow Control:	IEEE 802.3x Pause Frame for Full- Duplex, Back pressure for Half-Duplex

Layer 2 Functions

Management Interface:	Console, Telnet, Web Browser, SNMPv1, v2 and v3
Port Configuration:	Port enable/disable; Auto-negotiation; 10/100/1000Mbps full and half duplex mode selection; Flow Control enable/disable; Bandwidth control on each port
Port Status:	Display each port's: speed duplex mode, link status, flow control status, Auto negotiation status, trunk status
Port Mirroring:	TX/RX/Both; Many to 1 monitoring
Bandwidth Control:	Ingress/Egress rate control: configure per port
VLAN:	802.1Q Tagged-based VLAN, up to 255 VLAN groups out of 4094 VLAN IDs
Link Aggregation:	IEEE 802.3ad LACP / Static Trunk; Supports 14 groups of 8-Port trunks
Quality of Service (QoS):	Traffic classification based, Strict priority and WRR, 4-level priority for switching - Port Number, - 802.1p priority, - DS/TOS field in IP Packet
Multicasting/IGMP:	IGMP (v1/v2/v3) Snooping, up to 255 multicast Groups; IGMP Querier mode support, up to 255 multicast Groups; IGMP Querier mode support
Access Control List:	IP-Based ACL/MAC-Based ACL 256 entries
SNMP MIBs (1):	RFC-1213 MIB-II, IF-MIB, RFC-1493 Bridge MIB RFC-1643 Ethernet MIB RFC-2863 Interface MIB RFC-2665 Ether-Like MIB RFC-2737 Entity MIB
SNMP MIBs (2):	RFC-2618 RADIUS Client MIB RFC-2933 IGMP-STD-MIB RFC3411 SNMP-Frameworks-MIB, IEEE802.1X PAE, LLDP, MAU-MIB, Power over Ethernet–MIB

LED Indicators & Switch

Power:	On/Green
10/100/1000Base-TX Ports:	10/100/1000Mbps LNK/ACT (Green) PoE In-Use (Orange)
10/100/1000Base-T/SFP Ports:	1000Mbps (Orange), LNK/ACT (Green)
FAN(s):	FAN1 (Green), FAN2 (Green), FAN3 (Green)
Reset Button:	System reboot: push and hold < 5 sec.; Factory Default: push and hold > 5 sec.

Electrical & Mechanical

AC Power Input Voltage:	100 ~ 240VAC, 50 / 60Hz, Auto-sensing
DC Power Input Voltage:	36V DC @ 1.6A, Range: 36V ~ 60V DC
Power Consumption (Max):	502 Watts
Dimensions (WxDxH); in/cm:	430 x 300 x 44.5 mm
Weight; lbs/kgs:	4.49 kgs

Environmental

Operating Temperature:	0º ~ 50ºC
Storage Temperature:	-20º ~ 70ºC
Relative Humidity:	0% to 95% (non-condensing)

Standards Compliance

Regulatory Standards:	FCC Part 15 Class A, CE, UL, cUL

IEEE Standards (1):	IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX/100BASE-FX/BX/LX; IEEE 802.3z Gigabit SX/BX/LX/LHX/ZX; IEEE 802.3ab Gigabit 1000T; IEEE 802.3x Flow Control and Back pressure; IEEE 802.3ad Port trunk with LACP; IEEE 802.1d Spanning tree protocol
IEEE Standards (2):	IEEE 802.1w Rapid spanning tree protocol; IEEE 802.1p Class of service; IEEE 802.1Q VLAN Tagging; IEEE 802.1x Port Authentication Network Control; IEEE 802.1ab LLDP

Accessories

SFP:	S30 Series
SFP:	S20 Series
SFP+:	S40 Series

Ordering Information

Part No.	Description
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