

NS4750-24S-4T-4X-V2

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.

Management in TruVision® Navigator

The NS4750-24S-4T-4X-V2 simplifies management of your IP video system by providing integration into TruVision Navigator 8.0 and above.

The NS4750-24S-4T-4X-V2 can provide information to TruVision Navigator such as ONVIF tables of cameras, bandwidth usage per port and POE power control making installation and management IP Video systems simpler and effortless.

Static Routing

The NS4750-24S-4T-4X-V2 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-V2 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-V2 provides both broad bandwidth and powerful processing capacity.



Details

- 24 SFP Slots Gigabit Ethernet
- Supported in TruVision Navigator 8 - Discover devices, monitor port utilisation
- 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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Technical specifications

General

Fast ring	Yes (ERPS)
Storm control	Broadcast, Multicast, Unicast
Security	802.1x, ACL, RADIUS, Source MAC / IP address binding, TACACS+
DHCP snooping	Yes
Fault relay output	Yes

Category

Category	Enterprise
Management	Managed (L3 Static Routing)
Managed	Yes (Layer 3)
PoE	No

Physical ports

No. of ports	4
Port type	Gig
Fiber port	24 SFP/4 SFP+
Supported SFPs	S20/S25 series, S30/S35 series, S40 series
SFP speed	24 x 100/1000 and 4 x 10G

Switch Performance

Switch fabric	128 Gbps
Throughput (Mpps)	95
Mac table	16 K
Jumbo frame support	10 K
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, Web, Telnet, SNMP 1,2,3, SSH/SSL secure access
IGMP snooping	255 Group, Snooping v1, v2, v3
IGMP query	Yes
VLAN, QoS	255, yes
Access control list	256 entries
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

Electrical

Redundant power	Yes
Power supply type	100 to 240 VAC
Power supply value	36 to 60VDC (optional secondary input)
Power consumption	58 W

Physical

Physical dimensions	430 x 300 x 45 mm
Net weight	4.490 kg
Colour	Black
Mounting type	19" rack
Stackable	No

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Environmental

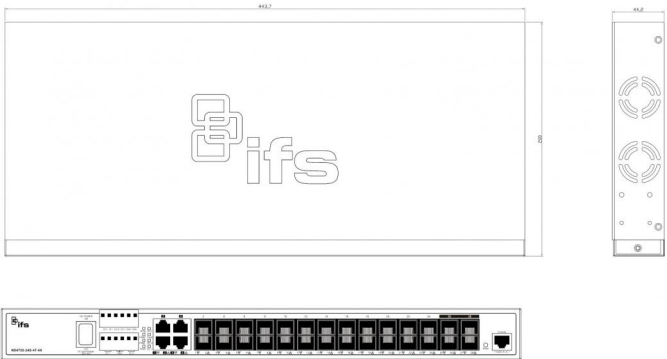
Operating temperature	0 to +50°C -10 to +60°C with external PSU
Storage temperature	-10 to +70°C
Relative humidity	0 to 95% (non-condensing)
Environment	Indoor

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.

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



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Last updated on 6 December 2019 - 9:11

