# 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 lables 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.

### Dettagli

- 24 SFP Slots Gigabit Ethernet
- Supported in TruVision Navigator 8 - Discover devices, monitor port utilisation, control PoE power
- 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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## Specifiche tecniche

### Generale

| | |
|---|---|
| Anello veloce | Si (ERPS) |
| Controllo della tempesta | Broadcast, Multicast, Unicast |
| Sicurezza | 802.1x, ACL, RADIUS, Source MAC / IP address binding, TACACS+ |
| Snooping DHCP | Si |
| Uscita guasto relè | Si |

### Categoria

| | |
|---|---|
| Categoria | Entreprice |
| Gestione | Gestito (routing statico L3) |
| Gestito | Sì (Layer 3) |
| PoE | No |

### Porte fisiche

| | |
|---|---|
| No. di porte | 4 |
| Tipo porta | Gig |
| Porta fibra | 24 SFP/4 SFP+ |
| Supporto SFPs | S20/S25 series, S30/S35 series, S40 series |
| Velocità SFP | 24 x 100/1000 e 4 x 10G |

### Cambia prestazioni

| | |
|---|---|
| Cambia tessuto | 128 Gbps |
| Velocità effettiva (Mpps) | 95 |
| Tavolo Mac | 16 K |
| Supporto Jumbo frame | 10 K |

### Funzioni di livello 2

| | |
|---|---|
| Interfaccia di gestione | Console, Web, Telnet, SNMP 1,2,3, SSH/SSL secure access |
| Snooping IGMP | 255 Group, Snooping v1, v2, v3 |
| Query IGMP | Si |
| VLAN, QoS | 255, yes |
| Lista controllo accessi | 256 entries |

### Elettrico

| | |
|---|---|
| Alimentazione ridontante | Si |
| Tipo di alimentatore | 100 a 240 VCA |
| Power supply value | 36 to 60VDC (optional secondary input) |
| Consumo di energia | 58 W |

### Fisico

| | |
|---|---|
| Dimensioni fisiche | 430 x 300 x 45 mm |
| Peso netto | 4.490 kg |
| Colore | Nero |
| Tipo di montaggio | Rack 19" |
| Impilabile | No |

### Ambientale

| | |
|---|---|
| Temperatura operativa | 0 to +50°C<br>-10 to +60°C with external PSU |
| Temperatura di immagazzinamento | -20 to +70°C |
| Umidità relativa | 0 to 95% (non-condensing) |
| Ambiente | Interno |

### Switch performance

| | |
|---|---|
| Switch Architecture | Store-and-Forward |
| Switch Fabric | 128 Gbps non-blocking |
| Switch Throughput | 95 Mpps @ 64 Bytes |
| Mac Address Table | 16 K entries |
| Share Data Buffer | 32 Megabits |
| Jumbo Frame Size | 10 Kbytes |
| 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 | 10/100/1000 Mbps LNK/ACT (Green) PoE In-Use (Orange) |
| 10/100/1000Base-T/SFP Ports | 1000 Mbps (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. |

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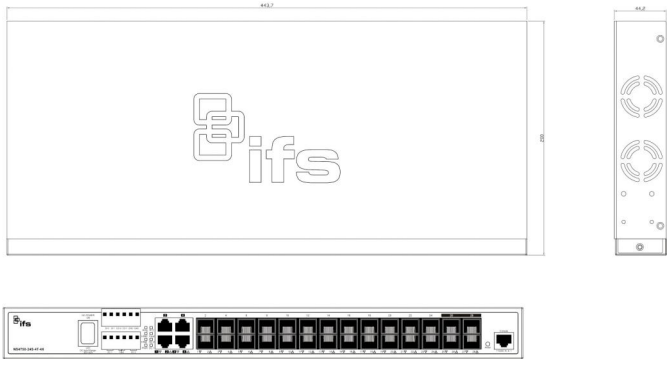
### Standards Compliance

| | |
|---|---|
| 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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