



NS3702-24P-4S-V2

Enterprise-class 24-port Gigabit Backbone Network Switch with PoE+ and Static Routing

Overview

This enterprise-class network switch is engineered to meet a variety of high-performance applications such as PoE distribution, optical network architectures, and high-density performance through reliable technology and advanced Layer 2+ networking features.

Management in TruVision® Navigator

The NS3702-24P-4S-V2 simplifies management of your IP video system by providing integration into TruVision Navigator 8.0 and above.

The NS3702-24P-4S-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.

Full Power Isolated per Port PoE+

The NS3702-24P-4S-V2 features IEEE 802.3at Power over Ethernet (PoE+) providing optimized deployment and power management of PoE edge devices such as IP Surveillance cameras, access control panels and wireless access points (WAP). In addition, PoE port circuit protection isolates and prevents power interference between ports.

Static Routing

The NS3702-24P-4S-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.



Details

- 24-ports Gigabit Ethernet RJ-45 with PoE+
- Supported in TruVision Navigator 8 - Discover devices, monitor port utilisation, control PoE power
- 4 SFP slots shared with Ports 21 to 24 - compatible with S2x and S3x SFP's
- Support for Static Routing
- Up to 48Gbps non-blocking switch fabric
- 10Kbytes Jumbo Frame Size
- 8K MAC address table
- Full Multicast Support for IP Video - up to 256 multicast groups
- VLAN Support - up to 256 VLANs groups
- Quality of Service (QoS)
- Power over Ethernet
- Complies with IEEE 802.3at Standard for PoE
- 380 Watt Power Budget
- Auto-detects PoE powered devices (PD)
- Advanced Security
- MAC Filtering and Source IP/MAC address port-binding

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Technical specifications

General

Fast ring	No
Storm control	Broadcast, Unicast
Security	802.1x, IP-MAC port binding, RADIUS, TACACS+
DHCP snooping	No
Fault relay output	No

Category

Category	Commercial
Management	Managed
Managed	Yes (Layer 3 - Limited)
PoE	Yes

Physical ports

No. of ports	24
Port type	Gig
Speed	Gigabit
PoE/PoE+	24 port PoE/12 port PoE+
Fiber port	4
Supported SFPs	S20/S25 series, S30/S35 series
SFP speed	100/1000
10/100/1000Base-T (X) Ports	RJ-45 (24)
SFP/Mini-GBIC Slots	SFP/Mini-GBIC Slots (4) - Shared with RJ-45 Ports-21 to 24; 1000Base-SX/BX/LX/LHX/ZX and 100Base-FX/BX/LX SFP transceiver compatible
Port Configuration	Auto MDI/MDI-X
Port Speed	Auto-negotiate

Switch Performance

Switch fabric	48 Gbps
Throughput (Mpps)	35.7
Mac table	16 K
Jumbo frame support	10 K
Switch Architecture	Store-and-Forward
Share Data Buffer	4.1Megabits
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
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, v2c 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 12 groups of 16-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

PoE power budget	380 W
Redundant power	No
Power supply type	100 to 240 VAC
Power supply value	50 / 60Hz, Auto-sensing
Power consumption	422 W

Physical

Physical dimensions	440 x 200 x 44 mm
Net weight	4.750 kg
Colour	Black
Mounting type	19" rack
Stackable	No

Environmental

Operating temperature	0 to +50°C
Storage temperature	-20 to +70°C
Relative humidity	0 to 95% (non-condensing)
Environment	Indoor

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Power over Ethernet

PoE Standard	IEEE 802.3at
PoE Power Supply Type	End-Span (PSE)
Max. number of PD @ 30.8 Watts	12
Max. number of PD @ 15.4 Watts	24
PoE Power Output Per Port	48VDC, 350mA.; 15.4 watts max.
Power Pin Assignment	1/2(+), 3/6(-)

LED Indicators & Switch

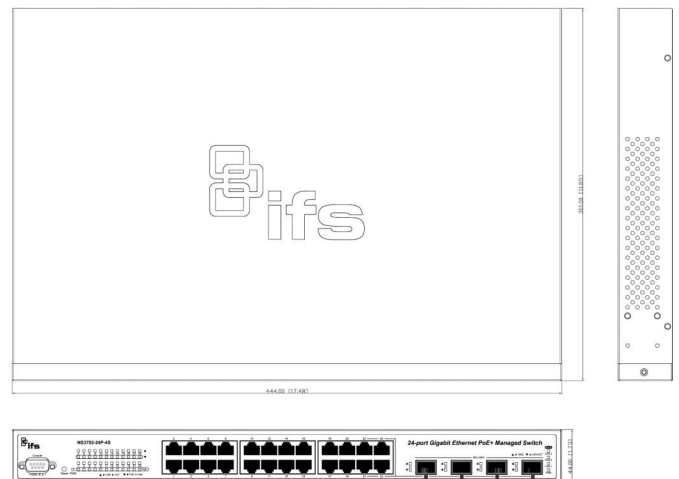
Power	On/Green
10/100/1000Base-TX Ports	10/100/1000Mbps LNK/ACT (Green) PoE In-Use (Orange)
10/100/1000Base-T/SFP Ports	1000Mbps (Orange), LNK/ACT (Green)
FAN(s)	FAN1 (Green), FAN2 (Green), FAN3 (Green)
Reset Button	System reboot: push and hold < 5 sec.; Factory Default: push and hold > 5 sec.

Standards & regulation

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; IEEE 802.3at Power over Ethernet

Accessories

SFP	S30 Series
SFP	S20 Series



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