

NS4702-24P-4S-4X

Enterprise-class 24-port PoE+ Gigabit Switch with 10G uplink

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 advance Layer 2+ networking features.

It is ideally suited to large scale IP CCTV based security systems.

Simple Web Management

Efficient switch management via a simple, yet powerful set of built-in Web Services. The NS4702-24P-4S-4X can easily be programmed for all switch management functions through the easy to use Web interface.

Powerful PoE+ Support

The NS4702-24P-4S-4X features IEEE 802.3at Power over Ethernet (PoE+) and up to 440 Watts of PoE budget providing optimized deployment and power management of PoE edge devices such as IP Surveillance cameras, access control panels and wireless access points.

Static Routing

The NS4702-24P-4S-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 NS4702-24P-4S-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 NS4702-24P-4S-4X provides both broad bandwidth and powerful processing capacity.



Standard Features

- 24-ports Gigabit Ethernet RJ-45 with PoE+
- 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
- Power over Ethernet
- Complies with IEEE 802.3at Standard for PoE
- Up to 440 Watts PoE Power Budget
- Up to 14 PoE+ devices simultaneously
- Advanced Security
- MAC Filtering and Source IP/MAC address port-binding
- Quality of Service (QoS)

NS4702-24P-4S-4X

Enterprise-class 24-port PoE+ Gigabit Switch with 10G uplink

Specifications

Category	
Category	Enterprise
Management	Managed (L3 Static Routing)
PoE	Yes
Managed	Yes (Layer 3)
Physical ports	
Speed	10G
No. of ports	24
Port type	Gig
PoE/PoE+	24 port PoE/14 port PoE+
Fiber port	4 SFP/4 SFP+
SFP speed	24 x 100/1000 and 4 x 10G
Supported SFP's	S20/S25 series, S30/S35 series, S40 series
Switch Performance	
Throughput (Mpps)	95
Jumbo frame support	10 K
Switch fabric	128 Gbps
Mac table	16 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	
IGMP snooping	255 Group, Snooping v1, v2, v3
IGMP query	Yes
Access control list	256 entries
Management interface	Console, Web, Telnet, SNMP 1,2,3, SSH/SSL secure access
VLAN, QoS	255, yes
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
General	
Fast ring	Yes (ERPS)
Storm control	Broadcast, Multicast, Unicast
Security	802.1x, RADIUS, TACACS+, Source MAC/IP address binding, ACL

DHCP snooping	Yes
Fault relay output	No

Physical	
Stackable	No
Physical dimensions	430 x 200 x 45 mm
Net weight	2.690 kg
Colour	Black
Mounting type	19" rack

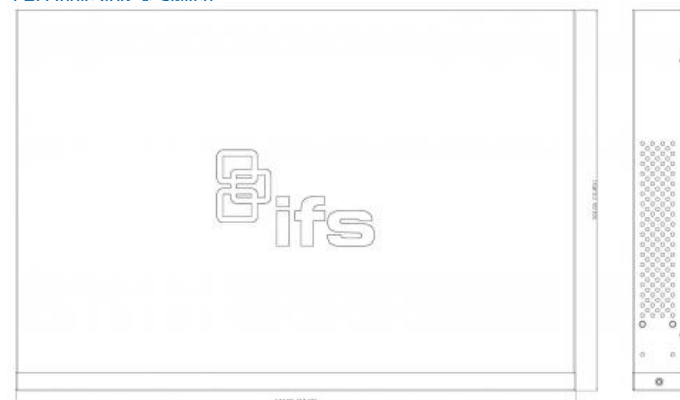
Environmental	
Operating temperature	0 to +50°C
Storage temperature	-20 to +70°C
Relative humidity	0 to 95% (non-condensing)
Environment	Indoor
Operating Temperature:	0° ~ 50°C
Storage Temperature:	-20° ~ 70°C
Relative Humidity:	0% to 95% (non-condensing)

Electrical	
Power supply type	100 to 240 VAC
Power consumption	482 W
PoE power budget	440 W
Redundant power	No

Physical Ports	
10/100/1000Base-T (X) Ports:	RJ-45 (24)
SFP Slots:	SFP (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+
Port Configuration/Speed:	Auto MDI/MDI-X, Auto-negotiate

Power over Ethernet	
PoE Standard:	IEEE 802.3at
PoE Power Supply Type:	End-Span (PSE)
PoE Power Budget:	440 Watts @ 25°C
Max. number of PD @ 30.8 Watts:	14
Max. number of PD @ 15.4 Watts:	24

Part No.	Description
NS4702-24P-4S-4X	Enterprise-class 24-port PoE+ Gigabit Switch with 10G uplink



IEEE Standards (1):	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

Ordering Information