

NS4802-24P-4S-2X

Enterprise-class 24-port PoE+ Gigabit Stacking 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 NS4802-24P-4S-2X can easily be programmed for all switch management functions through the easy to use Web interface.

Powerful PoE+ Support

The NS4802-24P-4S-2X features IEEE 802.3at Power over Ethernet (PoE+) and up to 380W 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 NS4802-24P-4S-2X 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 NS4802-24P-4S-2X supports Dual-Speed, 10GBase-SR/LR or 1000Base-SX/LX.

With its 2-port, 10G Ethernet link capability, the NS4802-24P-4S-2X provides both broad bandwidth and powerful processing capacity.

Stacking Functionality

It is possible to stack up to 16 NS4802-24P-4S-2X switches together creating one easy to manage virtual switch. Supporting up to 384 Gigabit ports and 32 10G ports, the NS4802-24P-4S-2X allows for great flexibility.



Details

- 24-ports Gigabit Ethernet RJ-45 with PoE+
- 2 SFP+ slots for 10G Uplinks - compatible with S4x Series SFP+
- Stack up to 16 switches for a total of 384 Gigabit ports and 32 10G ports
- Support for Static Routing
- Up to 128 Gbps 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 255 VLANs groups
- Power over Ethernet
- Complies with IEEE 802.3at Standard for PoE
- Up to 380W PoE Power Budget
- Up to 12 PoE+ devices simultaneously
- 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	No

Category

Category	Enterprise
Management	Managed (L3 Static Routing)
Managed	Yes (Layer 3)
PoE	Yes

Physical ports

No. of ports	24
Port type	Gig
Speed	10G
PoE/PoE+	24 port PoE/12 port PoE+
Fiber port	4 SFP/4 SFP+
Supported SFPs	S20/S25 series, S30/S35 series, S40 series
SFP speed	24 x 100/1000 and 2 x 10G

Switch Performance

Switch fabric	128 Gbps
Throughput (Mpps)	95
Mac table	16 K
Jumbo frame support	9 K
Switch Architecture:	Store-and-Forward
Switch Fabric:	128 Gbps non-blocking
Switch Throughput:	95 Mpps @ 64Bytes
Mac Address Table:	16K entries
Share Data Buffer:	4 megabits
Jumbo Frame Size:	9K bytes
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 3 groups of 6-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 consumption	445 W

Physical

Physical dimensions	430 x 200 x 45 mm
Net weight	4.890 kg
Colour	Black
Mounting type	19" rack
Stackable	Yes

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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 to 50°C
Storage Temperature:	-20 to 70°C
Relative Humidity:	0% to 95% (non-condensing)

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+ (2); Compatible with S4x Series SFP+
Stacking Ports	Dedicated Ports (2)

Power over Ethernet

PoE Standard:	IEEE 802.3at
PoE Power Supply Type:	End-Span (PSE)
PoE Power Budget:	380W @ 25°C
Max. Number of PD @ 30.8W:	12
Max. Number of PD @ 15.4W:	24
PoE Power Output Per Port:	56V DC, Max. 30.8W
Power Pin Assignment:	1/2(+), 3/6(-)

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)
1/10 Gbps SFP+ Ports:	10 Gbps LNK/ACT (Green) 1Gbps LNK/ACT (Orange)
Reset Button:	System reboot: push and hold < 5 s; Factory Default: push and hold > 5 s

Electrical & Mechanical

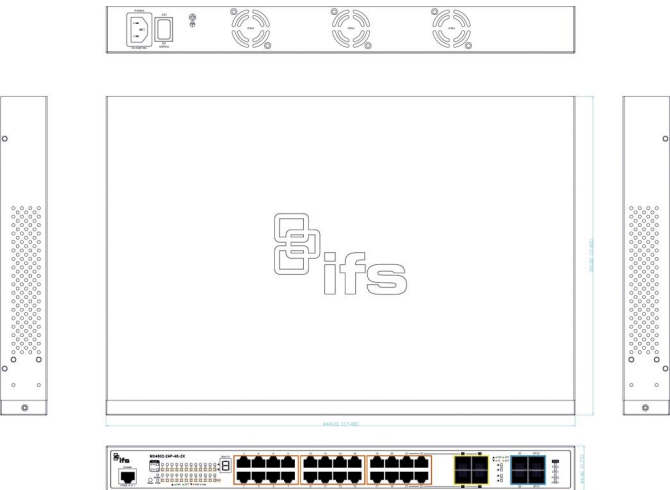
AC Power Input Voltage:	100 ~ 240VAC, 50 / 60Hz, Auto-sensing
Power Consumption (Max):	502W / 1712 BTU/H
Dimensions (WxDxH); in/cm:	440 x 300 x 44.5 mm
Weight; lbs/kgs:	4.49 kgs

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; IEEE 802.3at Power over Ethernet

Accessories

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



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