NS4702-24P-4X-V3

Enterprise-class 24-port Gigabit backbone network switch with PoE+, 4-10G SFP+ uplinks

Overview

This Enterprise-Class Network Switch provides 24 Gigabit Ethernet ports with 4 100/1000/10,000Mbps SFP slots. This switch provides a high-performance switch architecture and non-blocking switch fabric capable of wire-speed throughput as high as 95.23Gbps.

Powerful PoE+ Support

The NS4702-24P-4X-V2 features IEEE 802.3at Power over Ethernet (PoE+) and up to 400 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.

Extending Ethernet data transmission distance and PoE+ power

In the Extend operation mode, the NS4702-24P-4X-V3 operates on a per-port basis at 10Mbps duplex operation but can support PoE power output over a distance of up to 250 meters overcoming the 100m limit on Ethernet UTP cable.

PoE schedule for Energy Saving

The PoE schedule function allows you to enable or disable PoE power for each PoE port during specified time intervals. This powerful function offers an easy help to save power and money by for example disabling power for devices during non-business hours.

Powerful security

The NS4702-24P-4X-V3 offers comprehensive IPv4/IPv6 Layer 2 to Layer 4 Access Control List (ACL) for enforcing security to the edge. It can be used to restrict network access by denying packets based on source and destination IP address, TCP/UDP ports or defined typical network applications. With the protected port function, communication between edge ports can be prevented to guarantee user privacy. Furthermore, Port security function allows to limit the number of network devices on a given port.



Details

- 24-ports Gigabit Ethernet RJ-45 with PoE+
- 4 SFP/SFP+ slots for 10G Uplinks - compatible with S2x, S3x and S4x Series SFPs
- PD Alive Checking
- Up to 128Gbps non-blocking switch fabric
- MAC-based network access authentication
- Web based management
- 16K MAC address table
- VLAN Support - up to 256 VLANs groups
- Up to 370 Watt PoE Power Budget

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Technical specifications

General

Fast ring	Yes (ERPS)
Storm control	Broadcast, Multicast, Unicast
Fault relay output	No

Category

Category	Commercial, Enterprise
Management	Managed
Managed	Yes (Layer 2)
PoE	Yes

Physical ports

No. of ports	24
Speed	Gigabit
PoE/PoE+	IEEE 802.3at PoE+ on ports 1 to 24
Fiber port	4 SFP/4 SFP+
Supported SFPs	S20/S25 series, S30/S35 series, S40 series
Console Port	1 x RJ45-to-RS232 serial port (115200, 8, N, 1)

Switch Performance

Switch fabric	128 Gbps/non-blocking
Throughput (Mpps)	95.23 Mpps
Mac table	16 K
Jumbo frame support	12 K

Layer 2 Functions

IGMP snooping	256 Group, Snooping v2, v3
IGMP query	Yes
Port Mirroring	TX/RX/both, Many-to-1 monitor, Up to 4 sessions
VLAN	IEEE 802.1Q tagged VLAN, Up to 256 VLAN groups, out of 4094 VLAN IDs, IEEE 802.1ad Q-in-Q tunneling, Voice VLAN, Protocol VLAN, Private VLAN (Protected port), GVRP, Management VLAN
Link Aggregation	IEEE 802.3ad LACP and static trunk, Supports 8 groups with 8 ports per trunk
Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol (STP), IEEE 802.1w Rapid Spanning Tree Protocol (RSTP), IEEE 802.1s Multiple Spanning Tree Protocol (MSTP), Maximum 15 MSTP instances, STP BPDU Guard, BPDU Filtering and BPDU Forwarding
MLD Snooping	MLD (v1/v2) snooping, up to 256 multicast groups
QoS	8 mapping IDs to 8 level priority queues: Port number, 802.1p priority, 802.1Q VLAN tag, DSCP field in IP packet, Traffic classification based, strict priority and WRR
Ring	Supports ERPS, and complies with ITU-T G.8032. Recovery time < 450ms

Electrical

PoE power budget	370 watts max
Redundant power	No
Power supply type	100 to 240 VAC
Power consumption	14.5 watts /49.4 BTU (System) 425 watts /1449 BTU (System+PoE)

Physical

Physical dimensions	440 x 207 x 44 mm, 1U Height
Net weight	3457 g
Colour	Black
Material	Metal
Mounting type	19" rack
Stackable	No

Environmental

Operating temperature	0 to 50°C
Storage temperature	-20 to 70°C
Relative humidity	5 to 95% (non-condensing)
Environment	Indoor

Power over Ethernet

PoE Standard	IEEE 802.3af/at PoE+ PSE (Ports 1-24)
PoE Power Supply Type	End-span
PoE Power Output	32W (max)
Power Pin Assignment	End-span: 1/2 (-), 3/6 (+)
PoE Power Budget	370 watts (max.)

PoE Management Functions

Active PoE Device Detection	Yes
PoE Power Recycle	Yes, daily or predefined schedule
PoE Schedule	4 schedule profiles
PoE Extend Mode	Yes, max. up to 250 meters
PoE Port Management	Port Enable/Disable/Schedule, Force mode, Port Priority

Security Functions

Access Control List	IPv4/IPv6 IP-based ACL/MAC-based ACL, IPv4/IPv6 IP-based ACE/MAC-based ACE, Max. 256 ACL entries
Port Security	IEEE 802.1X – Port-based authentication, Built-in RADIUS client to co-operate with RADIUS server, RADIUS/TACACS+ user access authentication
MAC Security	IP-MAC port binding, MAC filter, Static MAC address, max. 256 static MAC entries
Enhanced Security	DHCP Snooping and DHCP Option82, STP BPDU guard, BPDU filtering and BPDU forwarding, DoS attack prevention, ARP inspection, IP source guard

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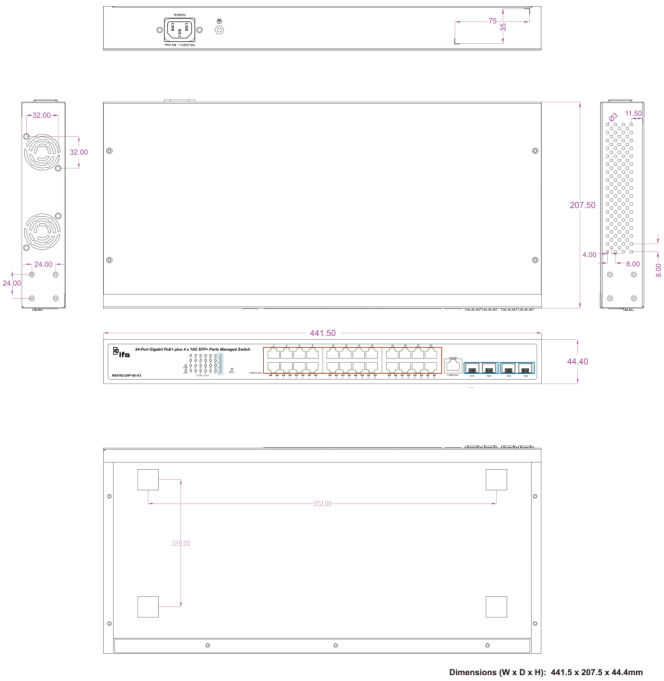
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Management Functions

Basic Management Interfaces	Web browser; Telnet; SNMP v1, v2c
Secure Management Interfaces	SSHv2, TLS v1.2, SNMP v3
System Management	Firmware upgrade by HTTP/TFTP protocol hrough Ethernet network, LLDP protocol, SNTP, TruVision Device Manager discovery tool, TruVision Navigator VMS monitoring software.
Event Management	Remote Syslog, Local System log, Email SMTP
SNMP MIBs	RFC 1213 MIB-II, RFC 1215 Generic Traps, RFC 1493 Bridge MIB, RFC 2674 Bridge MIB Extensions, RFC 2737 Entity MIB (v2), RFC 2819 RMON (1, 2, 3, 9), RFC 2863 Interface Group MIB, RFC 3635 Ethernet-like MIB, RFC 3621 Power Ethernet MIB

IEEE Standards

Standards Compliance :	IEEE 802.3 10Base-T
Standards Compliance :	IEEE 802.3u 100Base-TX/100Base-FX
Standards Compliance :	IEEE 802.3z Gigabit SX/LX
Standards Compliance :	IEEE 802.3ab Gigabit 1000Base-T
Standards Compliance :	IEEE 802.3x Flow Control and Back pressure
Standards Compliance :	IEEE 802.3ad Port trunk with LACP
Standards Compliance :	IEEE 802.1d Spanning Tree Protocol
Standards Compliance :	IEEE 802.1w Rapid Spanning Tree Protocol
Standards Compliance :	IEEE 802.1s Multiple Spanning Tree Protocol
Standards Compliance :	IEEE 802.1p Class of Service
Standards Compliance :	IEEE 802.1Q VLAN Tagging
Standards Compliance :	IEEE 802.1x Port Authentication Network Control
Standards Compliance :	IEEE 802.1ab LLDP
Standards Compliance :	RFC 768 UDP
Standards Compliance :	RFC 793 TFTP
Standards Compliance :	RFC 791 IP
Standards Compliance :	RFC 792 ICMP
Standards Compliance :	RFC 2068 HTTP
Standards Compliance :	RFC 1112 IGMP version 1
Standards Compliance :	RFC 2236 IGMP version 2
Regulation Compliance :	FCC Part 15 Class A, CE
Safety :	UL, cUL



Dimensions (W x D x H): 441.5 x 207.5 x 44.4mm

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