# 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

# NS4702-24P-4X-V3

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## Technical specifications

### General

| | |
|---|---|
| Fast ring | Tak (ERPS) |
| Storm control | Broadcast, Multicast, Unicast |
| Fault relay output | Nej |

### Category

| | |
|---|---|
| Category | Commercial, Enterprise |
| Management | Formået |
| Managed | Ja (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 | Seria S20/S25, Seria S30/S35, Seria S40 |
| 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 | Ja |
| 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 til 240 VAC |
| Power consumption | 14.5 watts /49.4 BTU (System)<br>425 watts /1449 BTU (System+PoE) |

### Physical

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

### Environmental

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

### 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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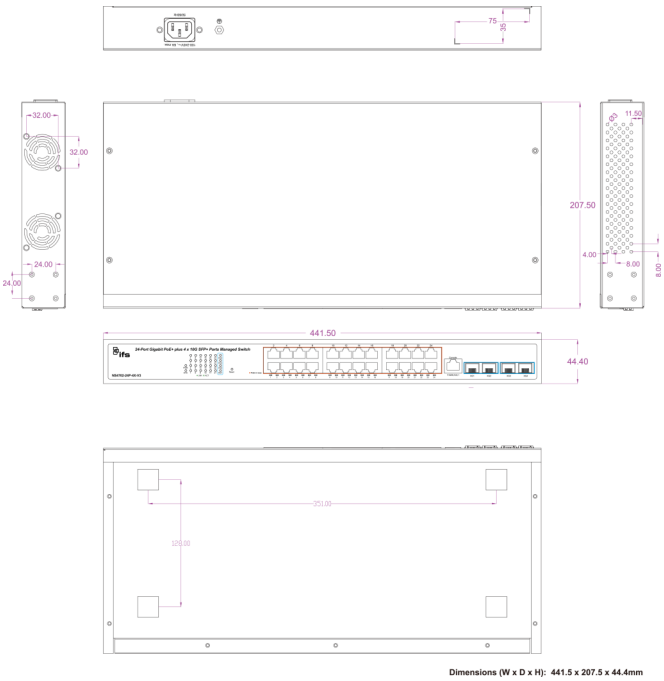
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### Management Functions

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