# NS4703-24P-4X

## Enterprise-class 24-port Gigabit backbone network switch with 8-port Ultra PoE, 16-port Gigabit PoE+, 4-10G 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.

### 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.

### Extending Ethernet data transmission distance and PoE+ power

In the Extend operation mode, the NS4703-24P-4X operates on a per-port basis at 10Mbps duplex operation but can support 23- or 85-watt PoE power output over a distance of up to 250 meters overcoming the 100m limit on Ethernet UTP cable.

### Powerful security

The NS4703-24P-4X 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

- 8-port Gigabit Ethernet RJ-45 with 95 Watt PoE++ (802.3bt)
- 16-port Gigabit Ethernet RJ-45 with 32 Watt PoE+ (802.3at)
- 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 450 Watts PoE Power Budget

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## Technical specifications

### General

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

### Category

| | |
|---|---|
| Category | Gewerblich, Enterprise |
| Management | Verwaltet |
| Managed | Ja (Layer 2) |
| PoE | Yes |

### Physical ports

| | |
|---|---|
| No. of ports | 24 |
| Speed | Gigabit |
| PoE/PoE+ | PoE+ and PoE++ |
| Fiber port | 4 SFP/4 SFP+ |
| Supported SFPs | S20/S25 Serie, S30/S35 Serie, S40 Serie |
| SFP speed | 24 x 100/1000 und 4 x 10G |
| Port 1 to 8 | 8 ports with IEEE 802.3bt PoE++ injector function (90W max.) |
| Port 9 to 24 | 16 ports with IEEE 802.3at PoE+ injector function (32W max.) |
| Power pin assignment | End-span: 1/2 (-), 3/6 (+)<br>Mid-span: 4/5 (+), 7/8 (-)<br>802.3bt: 1/2 (-), 3/6 (+), 4/5 (+), 7/8 (-) |

### Switch Performance

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

### Layer 2 Functions

| | |
|---|---|
| IGMP snooping | 256 Group, Snooping v2, v3 |
| IGMP query | Ja |
| VLAN, QoS | 256, Ja |
| Access control list | 256 entries |
| 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 |
| 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 |
| MLD Snooping | MLD (v1/v2) snooping, up to 256 multicast groups |
| Ring | Supports ERPS, and complies with ITU-T G.8032. Recovery time < 450ms |

### Electrical

| | |
|---|---|
| PoE power budget | 450 Watt max. |
| Redundant power | No |
| Power supply type | 100 bis 240 VAC |
| Power consumption | 15 watts / 51.1BTU (System)<br>540 watts / 1841.4 BTU (System+PoE) |

### Physical

| | |
|---|---|
| Physical dimensions | 440 x 207 x 44 mm, 1U height |
| Net weight | 3542 g |
| Colour | Schwarz |
| Material | Metall |
| Mounting type | 19" rack |
| Stackable | No |
| Fan | 2, also supports fanless mode |

### Environmental

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

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### 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 |

### Switch specifications

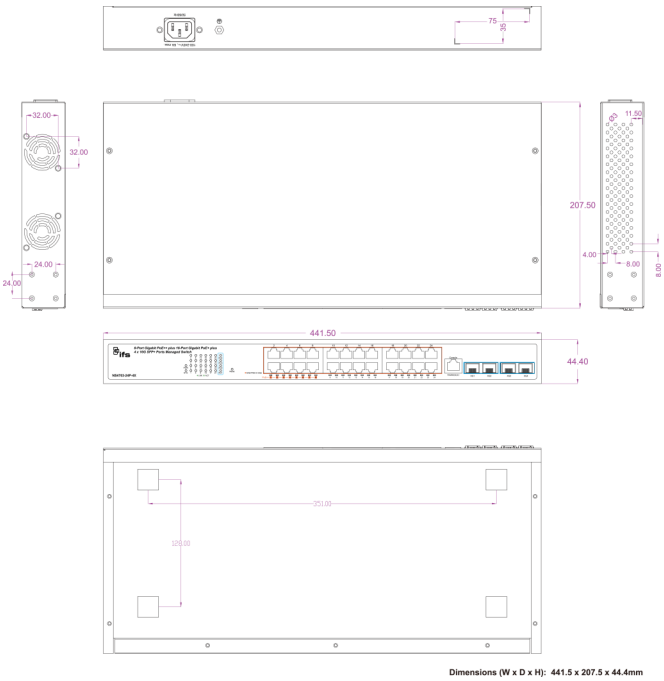
| | |
|---|---|
| Switch Architecture | Store-and-Forward |
| Switch Fabric | 128Gbps/non-blocking |
| Switch Throughput@64Bytes | 95.23 Mpps |
| Address Table | 16K MAC address table with auto learning function |
| Shared Data Buffer | 12 MB |
| Flow Control | IEEE 802.3x pause frame for full duplex. Back pressure for half duplex |
| Jumbo Frame | 12 KB |

### 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 |

### 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 |

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