



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)

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Specifications

Physical Ports

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

Switch Performance

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

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

Power over Ethernet

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|---------------------------------|-------------------------|
| 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 |
| PoE Power Output Per Port: | 56V DC, Max. 30.8 watts |
| Power Pin Assignment: | 1/2(+), 3/6(-) |

LED Indicators & Switch

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|------------------------------|--|
| Power: | On/Green |
| 10/100/1000Base-TX Ports: | 10/100/1000Mbps LNK/ACT (Green) PoE In-Use (Orange) |
| 10/100/1000Base-T/SFP Ports: | 1000Mbps (Orange), LNK/ACT (Green) |
| FAN(s): | FAN1 (Green), FAN2 (Green), FAN3 (Green) |
| Reset Button: | System reboot: push and hold < 5 sec.; Factory Default: push and hold > 5 sec. |

Electrical & Mechanical

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|--------------------------|---------------------------------------|
| AC Power Input Voltage: | 100 ~ 240VAC, 50 / 60Hz, Auto-sensing |
| Power Consumption (Max): | 502 Watts |

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| Dimensions (WxDxH); in/cm: | 430 x 300 x 44.5 mm |
| Weight; lbs/kgs: | 4.49 kgs |

Environmental

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

Standards Compliance

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

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

Ordering Information

| Part No. | Description |
|------------------|--|
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