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	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+	PoE+ and PoE++
Fiber port	4 SFP/4 SFP+
Supported SFPs	S20/S25 series, S30/S35 series, S40 series
SFP speed	24 x 100/1000 and 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 (+) Mid-span: 4/5 (+), 7/8 (-) 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	Yes
VLAN, QoS	256, yes
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 to 240 VAC
Power consumption	15 watts / 51.1BTU (System) 540 watts / 1841.4 BTU (System+PoE)

Physical

Physical dimensions	440 x 207 x 44 mm, 1U height
Net weight	3542 g
Colour	Black
Material	Metal
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	Indoor

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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

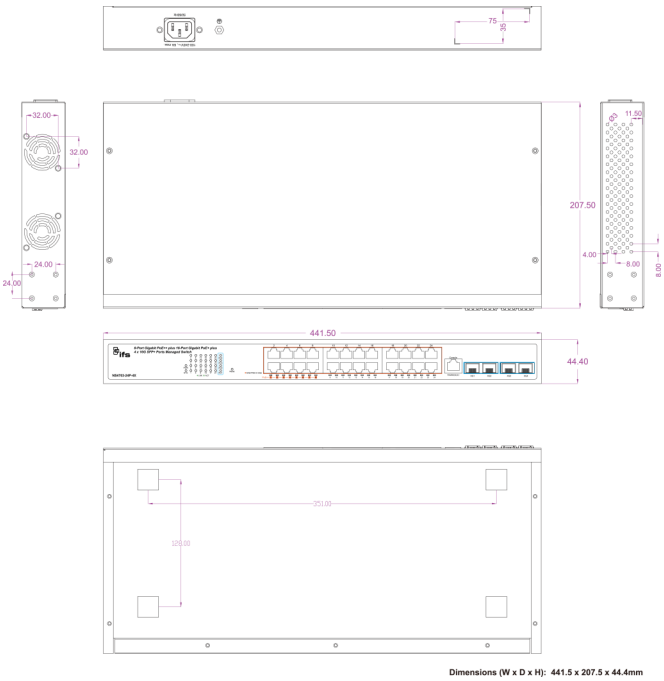
Switch Architecture	Store-and-Forward
Switch Fabric	128Gbps/non-blocking
Switch Throughput@64Bytes	95.23 Mpps
Address Table	16K MAC address table with auto learning function
Shared Data Buffer	12 MB
Flow Control	IEEE 802.3x pause frame for full duplex. Back pressure for half duplex
Jumbo Frame	12 KB

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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