NS4703-24P-4X

Switch réseau Gigabit 24 ports Entreprise avec 8 ports Ultra PoE, 16 ports Gigabit PoE+, 4-10G uplinks.

Overview

This 24-port Enterprise-Class Network Switch provides flexibility with its 8 Gigabit Ethernet ports with PoE Ultra and an additional 16 Gigabit Ethernet ports with PoE+, 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 NS4703-24P-4X features both IEEE 802.3bt (PoE++) and IEEE 802.3af/at Power over Ethernet (PoE+) and up to 450 Watts of PoE budget providing optimized deployment and power management of PoE edge devices such as IP PTZ Surveillance cameras. access control panels and wireless access points.

Intelligent Powered Device alive check

The NS4703-24P-4X supports PD Alive Check which can be configured to monitor connected PD (Powered Device) status in real time via ping action. Once the powered device stops working and responding, the NS4703-24P-4X will reset the PoE port power and try to bring the PD back to work.

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.



Détails

- 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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Spécifications techniques

General

Fast ring	Tak (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	Seria S20/S25, Seria S30/S35, Seria S40
SFP speed	24 x 100/1000 i 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	Ja
VLAN, QoS	256, tak
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) 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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Regulatory

Standards Compliance	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX/100BASE-FX
	IEEE 802.3z Gigabit SX/LX
	IEEE 802.3ab Gigabit 1000T
	IEEE802.3ae 10Gb/s Ethernet
	IEEE 802.3x flow control and back pressure
	IEEE 802.3ad port trunk with LACP
	IEEE 802.1D Spanning Tree Protocol
	IEEE 802.1w Rapid Spanning Tree Protocol
	IEEE 802.1s Multiple 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 802.3af Power over Ethernet
	IEEE 802.3at Power over Ethernet Plus
	IEEE 802.3bt Power over Ethernet Plus Plus
	IEEE 802.3az Energy Efficient Ethernet (EEE)
	RFC 768 UDP
	RFC 793 TFTP
	RFC 791 IP
	RFC 792 ICMP
	RFC 2068 HTTP
	RFC 1112 IGMP v1
	RFC 2236 IGMP v2
	RFC 3376 IGMP v3
	RFC 2710 MLD v1
	RFC 3810 MLD v2
	ITU G.8032 ERPS Ring
Regulatory Compliance	FCC Part 15 Class A, CE

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

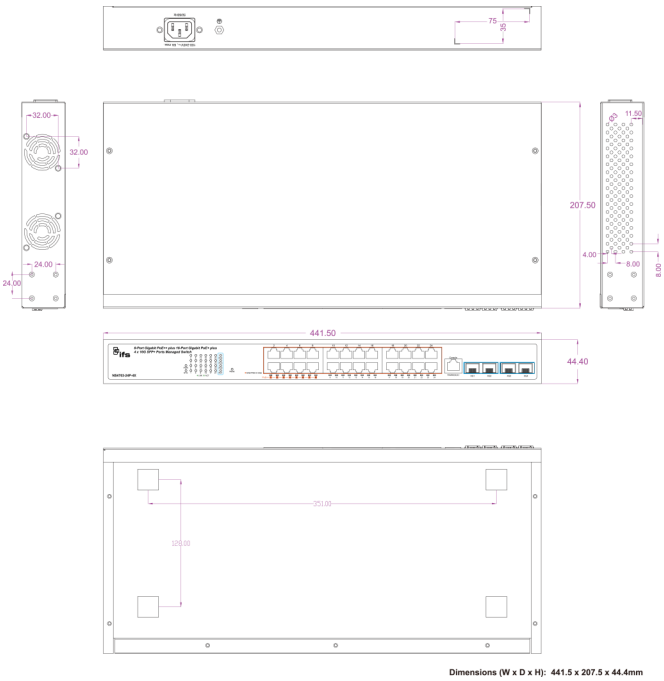
Switch Architecture	Store-and-Forward
Switch Fabric	128Gbps/non-blocking
Switch Throughput@64Bytes	95.23 Mpps
Address Table	16K MAC address table with auto learning function
Shared Data Buffer	12 MB
Flow Control	IEEE 802.3x pause frame for full duplex. Back pressure for half duplex
Jumbo Frame	12 KB

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



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

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