NS4702-24P-4X-V3

Switch de rede backbone Gigabit de 24 portas de classe empresarial com PoE+, ligações SFP+ de 4 a 10 Gbps

Overview

The NS4702-24P-4X-V3 Gigabit IEEE 802.3at PoE+ managed switch provides IPv6/IPv4 dual stack management and built-in L2/L4 Gigabit switching engine along with 24 10/100/1000BASE-T ports featuring 32-watt 802.3at PoE+ and 4 additional 10GBASE-X SFP+ fiber ports. With a total power budget of up to 370 watt for different kind of PoE applications, the NS4702-24P-4X-V3 provides a quick, safe and cost-effective 802.3at PoE+ network solution for small businesses and enterprises.

Flexibility and Long-distance Extension solution

The NS4702-24P-4X-V3 is a powerful networking device that offers four 10G SFP+ slots capable of supporting three different speeds. These slots can operate at 10GBASE-SR/LR or 1G/2.5GBASE-SX/LX backwards, providing administrators with flexibility in choosing the most suitable SFP/SFP+ transceiver based on the required transmission distance and speed.

Intelligent Powered Device alive check

The NS4702-24P-4X-V3 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.

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.



Detalhes

- 24 portas Gigabit Ethernet RJ-45 com PoE+
- 4 entradas SFP/SFP+ para ligações ascendentes de 10G – compatíveis com módulos SFP das séries S2x, S3x e S4x
- Verificação PD Alive
- Estrutura de comutação sem bloqueios com capacidade até 128 Gbps
- Autenticação de acesso à rede com base no MAC
- Gestão baseada na Web
- Tabela de endereços MAC de 16K
- Suporte a VLAN - até 256 grupos de VLAN
- Máximo de potência PoE até 370 watts

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Especificações técnicas

General

Fast ring	Ja (ERPS)
Storm control	Broadcast, Multicast, Unicast
Saída Falha por relé	Nein

Category

Categoria	Gewerblich, Enterprise
Gestão	Verwaltet
Gerido	Ja (Layer 2)
PoE	Yes

Physical ports

Nr. de portos	24
Velocidade	Gigabit
PoE / PoE+	IEEE 802.3at PoE+ nas portas 1 a 24
Porta de fibra	4 SFP/4 SFP+
SFPs Suportados	S20/S25 Serie, S30/S35 Serie, S40 Serie
Console Port	1 x RJ45-to-RS232 serial port (115200, 8, N, 1)

Switch Performance

Material do switch	128 Gbps/non-blocking
Throughput (Mpps)	95.23 Mpps
Tabela Mac	16 K
Suporte Jumbo frame	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

Potência Total PoE Disponível	370 watts max
Fonte redundante	No
Tipo de fonte de alimentação	100 bis 240 VAC
Consumo de energia	14.5 watts /49.4 BTU (System) 425 watts /1449 BTU (System+PoE)

Physical

Dimensões físicas	440 x 207 x 44 mm, 1U Altura
Peso líquido	3457 g
Cor	Schwarz
Material	Metall
Tipo de montagem	19" rack
Empilhável	No

Environmental

Temperatura de operação	0 até 50°C
Temperatura de armazenamento	-20 até 70°C
Humidade relativa	5 a 95% sem condensação
Ambiente	Drinnen

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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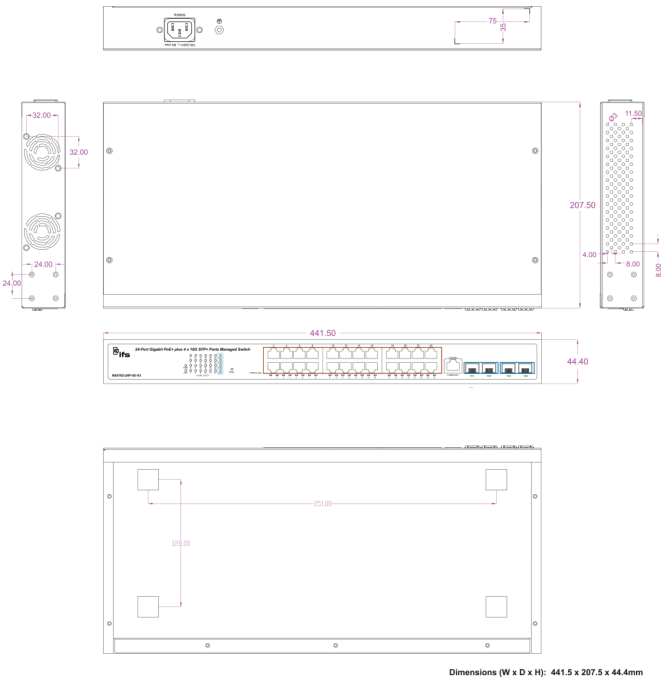
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Management Functions

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
	IEEE 802.3u 100BASE-TX/100BASE-FX
	IEEE 802.3z Gigabit SX/LX
	IEEE 802.3ab Gigabit 1000T
	IEEE 802.3ae 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 802.3az 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	UL, cUL



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

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