NS4700-24T-4X

Enterprise-class 24-port Gigabit non-PoE network switch with 4-10G uplink

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.

User-Friendly Traffic Control

Designed to deliver optimal performance for applications with limited network resources, the NS4700-24T-4X offers user-friendly traffic management features, including quick and simple QoS configuration through a Web interface.

Quiet, Energy-Efficient Technology

The NS4700-24T-4X provides a quiet, energy-efficient, high-speed network environment, delivering Gigabit performance at a cost similar to Fast Ethernet.



Details

- 24-ports Gigabit Ethernet RJ-45, non-PoE
- 4 SFP/SFP+ slots for 10G Uplinks - compatible with S2x, S3x and S4x Series SFPs
- Redundant ring, fast recovery for critical network applications
- MAC-based network access authentication
- Quite, fanless design
- Intelligent SFP Diagnosis mechanism

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Technical specifications

General

Fast ring	Tak (ERPS)
Storm control	Broadcast, Multicast
DHCP snooping	Yes
Fault relay output	Nej

Category

Category	Commercial, Enterprise
Management	Formået
Managed	Ja (Layer 2)
PoE	No

Physical ports

No. of ports	24
Port type	Gig
Speed	Gigabit
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
Console Port	1 x RJ45-to-RS232 serial port (115200, 8, N, 1)

Switch Performance

Switch fabric	128 Gbps/non-blocking
Throughput (Mpps)	95.23 Mpps
Mac table	16 K
Jumbo frame support	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

Redundant power	No
Power supply type	100 til 240 VAC
Power consumption	25.7 watts / 87.7 BTU (System+Full Loading)
Cooling Fan	No

Physical

Physical dimensions	440 x 207 x 44 mm, 1U height
Net weight	3500 g
Colour	Sort
Material	Metal
Mounting type	19" stativ
Stackable	No

Environmental

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

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	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

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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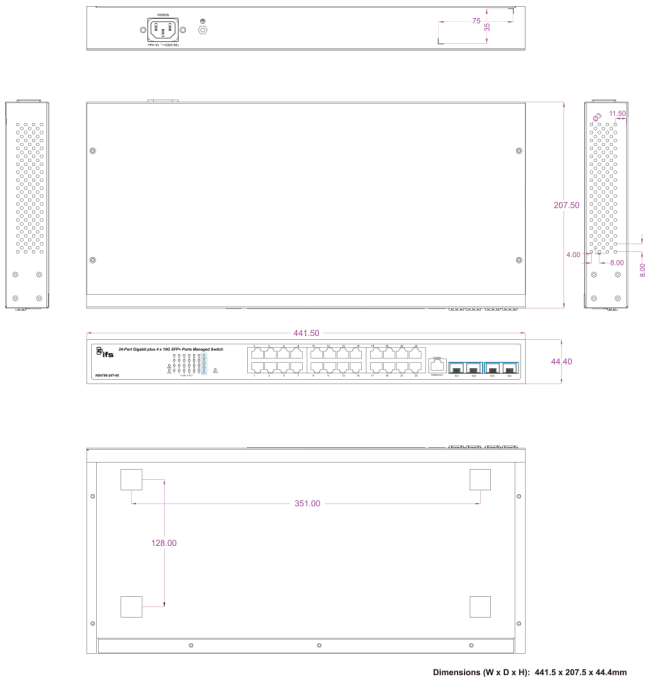
IEEE Standards

Standards Compliance :	IEEE 802.3 10Base-T
Standards Compliance :	IEEE 802.3u 100Base-TX/100Base-FX
Standards Compliance :	IEEE 802.3z Gigabit SX/LX
Standards Compliance :	IEEE 802.3ab Gigabit 1000Base-T
Standards Compliance :	IEEE 802.3x Flow Control and Back pressure
Standards Compliance :	IEEE 802.3ad Port trunk with LACP
Standards Compliance :	IEEE 802.1d Spanning Tree Protocol
Standards Compliance :	IEEE 802.1w Rapid Spanning Tree Protocol
Standards Compliance :	IEEE 802.1s Multiple Spanning Tree Protocol
Standards Compliance :	IEEE 802.1p Class of Service
Standards Compliance :	IEEE 802.1Q VLAN Tagging
Standards Compliance :	IEEE 802.1x Port Authentication Network Control
Standards Compliance :	IEEE 802.1ab LLDP
Standards Compliance :	RFC 768 UDP
Standards Compliance :	RFC 793 TFTP
Standards Compliance :	RFC 791 IP
Standards Compliance :	RFC 792 ICMP
Standards Compliance :	RFC 2068 HTTP
Standards Compliance :	RFC 1112 IGMP version 1
Standards Compliance :	RFC 2236 IGMP version 2
Regulation Compliance :	FCC Part 15 Class A, CE
Safety :	UL, cUL



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

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