

DATASHEET

NS4703-24P-4X

Enterprise-class 24-port Gigabit backbone network switch with 8-port Ultra PoE

MAIN FEATURES

- Enterprise-class 24-port Gigabit backbone network switch with 8-port Ultra PoE
- 16-port Gigabit PoE+
- 4-10G uplinks



TECHNICAL SPECIFICATIONS

Power supply

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 (-)
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)
PoE Power Recycle	Yes, daily or predefined schedule

Inputs / outputs

Fault relay output	No
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Physical characteristics

Physical dimensions	440 x 207 x 44 mm, 1U height
Net weight	3542 g
Colour	Black
Material	Metal
Mounting type	19" rack

Environmental characteristics

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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TECHNICAL SPECIFICATIONS

Other characteristics

Fast ring	Yes (ERPS)
Storm control	Broadcast, Multicast, Unicast
Category	Commercial, Enterprise
Management	Managed
Managed	Yes (Layer 2)
PoE	Yes
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.)
Switch fabric	128 Gbps
Throughput (Mpps)	95.23
Mac table	16 K
Jumbo frame support	12 K
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

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TECHNICAL SPECIFICATIONS

Stackable	No
Fan	2, also supports fanless mode
Standards Compliance	IEEE 802.3 10BASE-T
Regulatory Compliance	FCC Part 15 Class A, CE
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 Architecture	Store-and-Forward
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
Active PoE Device Detection	Yes
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
Basic Management Interfaces	Web browser
Secure Management Interfaces	SSHv2, TLS v1.2, SNMP v3
System Management	Firmware upgrade by HTTP/TFTP protocol through Ethernet network, LLDP protocol, SNMP, 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