

Product Introduction & Benefits

The NSH-5632 is a high performance managed SNMP Layer 3 switch that provides users with 24 x 100Mbps Fast Ethernet in SFP slots and 4 Gigabit Combo ports. The Web/SNMP management provides remote control capability that gives flexible network management and monitoring options. Whether managed through "in-band" SNMP management station, internet web browser, or through "out-of-band" RS-232 console port, the NSH-5632 facilitates network operational control and diagnosis.

For increased bandwidth application, NSH-5632 can accommodate up to 32 trunk groups with LACP link aggregation. Moreover, these trunk ports are with fail-over function to provide redundant back up if one or more of ports are malfunctioning. It also supports both 802.1Q VLAN and GVRP VLAN Registration thereby simplifying network traffic segmentation, broadcast domain extension and other associated benefits of constructing VLANs. The abundance of features translates into increased efficiency and performance in network administration.



Main Features:

Standards:

- ⌘ IEEE: 802.3u, 802.3z, 802.3ab, 802.3x, 802.3ad, 802.1d, 802.1w, 802.1s, 802.1q, 802.1p

Interface:

- ⌘ Twenty four 100Base-FX SFP slots
- ⌘ Four Gigabit SFP/RJ-45
- ⌘ RS-232 Console (RJ-45)

Networking:

- ⌘ Spanning Tree Protocol/ Rapid Spanning Tree Protocol/ Multiple Spanning Tree
- ⌘ Automatic learning of up to 16K MAC addresses
- ⌘ DHCP Relay
- ⌘ IGMP Snooping for multicast filtering
- ⌘ Ingress/Egress Rate limitation
- ⌘ Access Control List L2/L3/L4/L7
- ⌘ 8 Priority Queues
- ⌘ Full VLAN (802.1q)
- ⌘ LACP Link Aggregation
- ⌘ GVRP VLAN Registration Protocol
- ⌘ VLAN stacking (Q in Q)

Routing:

- ⌘ Static route
- ⌘ RIPv1/v2
- ⌘ OSPF
- ⌘ DVMRP
- ⌘ PIM-DM
- ⌘ VRRP

Management:

- ⌘ Web-based GUI
- ⌘ SNMP
- ⌘ RMON
- ⌘ Telnet/Console
- ⌘ Command Line (Cisco-like)
- ⌘ IEEE 802.1x Network Access Control
- ⌘ Port configuration, status, statistics, security
- ⌘ Loss of link management on fiber ports
- ⌘ Port mirroring

Power:

- ⌘ 100 ~ 240VAC auto-ranging power input
- ⌘ -48VDC in -37V ~ -56VDC power option available
- ⌘ Redundant power option available

Mechanical & Environmental:

- ⌘ Desktop and rack-mountable unit
- ⌘ Operating temperature: 0°C~50°C



Specifications:

Standards:	IEEE 802.3u 100Base-FX	Throughput:	14,880/148,800/1,488,000 packets per Second (pps) to 10/100/1000Mbps port
	IEEE 802.3ab 1000Base-T	MAC Table:	Up to 16K addresses,
	IEEE 802.3z 1000Base-SX/LX/LHX	VLAN:	Port-based and Tag-based (4KVLANs)
	IEEE 802.3ad Port Trunking	QoS:	Port-based, IEEE 802.1p tag, IPv4 ToS/DiffServ, IPv6 Traffic Class source/destination MAC address
	IEEE 802.1d Spanning Tree Protocol	Wavelength:	Depend on SFP module
	IEEE 802.1w Rapid Spanning Tree Protocol	Max Distances:	Fiber Optic: Up to 110km
	IEEE 802.1s Multiple Spanning Tree Protocol	RS-232:	15m
	IEEE 802.3x Flow Control	Power:	Power Input: 100 ~ 240VAC / 55W
	IEEE 802.1p Priority Queues	Temperature:	Operating: 0°C to 50°C
	IEEE 802.1q VLAN Tagging		Storage: -20°C to 70°C
	IEEE 802.1ad VLAN Stacking	Humidity:	Operating: 10% to 80% RH
CPU:	266MHz		Storage: 5% to 90% RH
SDAM:	64 M	Emissions:	FCC Part 15 of Class A & CE Approved
Flash Memory:	8 M	Safety:	EN 60950
Ports:	24 x 100Base-FX (SFP)	Dimensions:	285 x 440 x 44 mm (D x W x H)
	4 x GbE SFP	Weight:	4.5kg
	4 x 10/100/1000Base-T (RJ-45)		
	1 x RS-232 Console (RJ-45)		

Applications:

Designed for FTTB applications. The diagram on the right illustrates a typical MTU/MDU triple-play application for the NSH-5632 series. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.



Ordering Information:

NSH-5632: Managed 24-slot Fast Ethernet SFP + 4G(4x10/100/1000 +4xSFP) Combo L3 Switch with AC module

NSH-5632R: Managed 24-slot Fast Ethernet SFP + 4G(4x10/100/1000 +4xSFP) Combo L3 Switch with redundant AC power module

NSH-5632D: Managed 24-slot Fast Ethernet SFP + 4G(4x10/100/1000 +4xSFP) Combo L3 Switch with DC-48V power module

NSH-5632DR: Managed 24-slot Fast Ethernet SFP + 4G(4x10/100/1000 +4xSFP) Combo L3 Switch with redundant DC-48V power modules