

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 provide 2 trunk groups of 2 member (Combo) ports per trunk or one group of four (Combo) ports. 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

Routing:

- Static route
- RIPv1/v2
- OSPF
- VRRP

Management:

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

Power:

- 100 ~ 240VAC auto-ranging power input
- -48VDC 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	VLAN:	Port-based and Tag-based (4KVIDs)				
	IEEE 802.3ab	1000Base-T		QoS:	Port-based, IEEE 802.1p tag, IPv4			
	IEEE 802.3z	1000Base-SX/LX/LHX			ToS/DiffServ, IPv6 Traffic Class,			
	IEEE 802.3ad	Port Trunking			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 / 40W
	IEEE 802.1p	Priority Queues					Temperature:	Operating:
	IEEE 802.1q	VLAN Tagging				Humidity:		Storage:
Ports:	24 x 100Base-FX (SFP)	Emissions:	Operating:				10% to 80% RH	
	4 x GbE SFP		Safety:	Storage:		5% to 90% RH		
	4 x 10/100/1000Base-T (RJ-45)			Dimensions:		FCC Part 15 of Class A & CE Approved		
	1 x RS-232 Console (RJ-45)					Weight:	EN 60950	
	Throughputs:				14,880/148,800/1,488,000 packets per second (pps) to 10/100/1000 Mbps ports		440 x 44 x 285 mm (W x H x D)	
MAC Table:		Up to 16K addresses			4.5kg			

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

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Specifications subject to change without prior notice.