NSH-580

Managed 24-port 10/100 + 4G Combo L3 Switch

Product Introduction & Benefits

The **NSH-580** is a high performance managed SNMP Layer 3 switch that provides users with 24 x 10/100Mbps Ethernet 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-580** facilitates network operational control and diagnosis.

For increased bandwidth application, **NSH-580** can accommodate up to 32 trunk groups with LACP link aggregation. Moreover, these trunk ports are with fair-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: 802.3, 802.3u, 802.3z, 802.3x, 802.3ad, 802.1d, 802.1w, 802.1s, 802.1q, 802.1p

Interface:

- Twenty four 10/100Base-TX RJ-45 ports
- 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) with double tagging (Q in Q)
- LACP Link Aggregation
- GVRP VLAN Registration Protocol

Routing:

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

Management:

- Web-based GUI
- SNMP
- RMON
- Telnet/Console
- Command Line
- 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 power option available
- Redundant power option available

Mechanical & Environmental:

- Desktop and rack-mountable unit
- Operating temperature: 0ºC~50ºC

FCC Class A CE Approval

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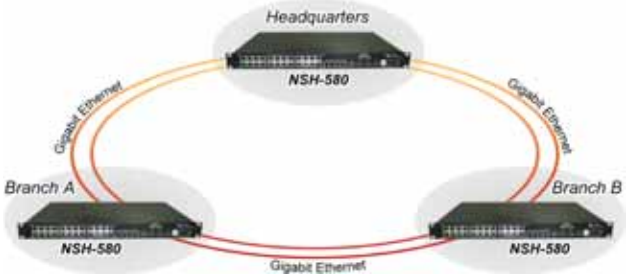
Specifications:

Standards:	IEEE 802.3u	100Base-TX/FX
	IEEE 802.3z	1000Base-SX/LX/LHX
	IEEE 802.3ad	Port Trunking
	IEEE 802.3	10Base-T
	IEEE 802.1d	Spanning Tree Protocol
	IEEE 802.1w	Rapid Spanning Tree Protocol
	IEEE 802.1s	Multiple Spanning Tree Protocol
	IEEE 802.3x	Flow Control
	IEEE 802.1p	Priority Queues
	IEEE 802.1q	VLAN Tagging
Ports:	24 x 10/100Base-TX (RJ-45)	
	4 x SFP	
	4 x 10/100/100Base-T (RJ-45)	
	1 x RS-232 Console (RJ-45)	
Throughputs:	14,880/148,800/1,488,000 packets per second (pps) to 10/100/1000 Mbps ports	
MAC Table:	Up to 16K addresses	

VLAN:	Port-based and Tag-based (4KVIDs)	
QoS:	Port-based, IEEE 802.1p tag, IPv4 ToS/DiffServ, IPv6 Traffic Class, source/destination MAC address	
Wavelength:	Depend on SFP module	
Max Distances:	10/100Base-TX:	100m
	RS-232:	15m
	Fiber Optic:	Up to 110km
Power:	Power Input:	100 ~ 240VAC
		-48VDC
	with Redundant Power options	
Temperature:	Operating:	0ºC to 50ºC
	Storage:	-20ºC to 70ºC
Humidity:	Operating:	10% to 80% RH
	Storage:	5% to 90% RH
Emissions:	FCC Part 15 of Class A & CE Approved	
Safety:	EN 60950	
Dimensions:	180 x 440 x 44 mm (D x W x H)	
Weight:	4kg	

Applications:

Designed for FTTx applications. The diagram on the right illustrates a typical MTU/MDU triple-play application for the NSH-580 series. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.



Ordering Information:

NSH-580:

Managed 24-port + 4G Combo L3 Switch

NSH-580D:

Managed 24-port + 4G Combo L3 Switch with DC-48V power supply

NSH-580R:

Managed 24-port + 4G Combo L3 Switch with redundant AC power inputs

NSH-580DR:

Managed 24-port + 4G Combo L3 Switch with redundant DC-48V power supply

(January 2007)

Specifications subject to change without prior notice.

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