

## NSH-566 Modularized 24 100Base-FX + 2G Access Switch



### Product Introduction & Benefits

**SNMP Management, RMON:** Flexible network management and monitoring options available translate into increased efficiency and performance. Whether managing from an 'in-band' SNMP management station, via an Internet web browser, or 'out-of-band' on the RS-232 console port, the NSH-566 facilitates network monitoring and troubleshooting.

**Higher Performance:** Non-blocking and maximum wire speed performance are designed on all switched ports, it not only supports auto-negotiation but also auto MDI/MDI-X function on all RJ-45 ports no matter half or full duplex mode, these function make user convenient, easy to use and reduce the matching effort between straight and cross-over line issues. Redundant dual AC power inputs make it ideal for any mission-critical applications.

**Scalable and Flexible:** The NSH-566 can be loaded with 8, 16, or 24 ports as per the network expansion requirement, thus making the start-up cost minimum. The port modules are swappable and can be interchanged. You can use replace copper module with fiber to upgrade your network. The NSH-566 can serve the current needs of an organization as well as future network expansion through this increased port density.

**Feature Enriched:** The NSH-566 offers feature such QoS, port-based VLAN and Tag-based VLAN, port trunking, port mirroring, IGMP snooping and many more.



### Applications:

Designed for FTTH, FTTB & Mission-critical applications

### Main Features:

- 3-slot for Fast Ethernet with choice of 8-port LC, or 4-port SC plus 2 GBIC ports
- Supports in-band and out-of-band management
- LED status indicators for: power (PWR), link (LNK), Activity (ACT), collision (COL), full duplex (FD)
- Slim standalone form factor
- Management via SNMP, web browser, menu-driven, Telnet, CLI and RS-232 console
- Supports 14K MAC address entries
- 3Mb frame buffer with non-blocking architecture
- Support multicast rate limit
- Support port-based VLAN
- Store and forward switching technology
- TFTP and HTTP firmware upgradeable
- Support Jumbo frames up to 1536 bytes
- Auto-negotiation and Auto MDI/MDI-X support on RJ-45port
- Supports 802.3x flow control for full duplex mode and collision-based back pressure for half-duplex mode
- FCC Class A & CE approved

### Ordering Information:

#### **NSH-566:**

Modularized 24 100Base-FX +2G Access Switch with AC 100~240V power supply

#### **NSH-566D:**

Modularized 24 100Base-FX +2G Access Switch with DC-48V power supply

#### **MXT-016:**

8-Port 10/100Base-TX Module

#### **MXF-019:**

8-Port 100Base-FX Multi-mode LC Module

#### **MXF-020:**

8-Port 100Base-FX Single Mode LC Module

#### **MXF-021:**

8-Port 100Base-FX Single Fiber Transceiver (Transmitter, Wavelength TX = 1310nm, RX = 1550nm)

#### **MXF-022:**

8-Port 100Base-FX Single Fiber Transceiver (Receiver, Wavelength TX = 1550nm, RX = 1310nm)

#### **MXF-023MT/MC:**

4-port 100Base-FX Multi-mode ST/SC module (produced to order)

#### **MXF-023SC:**

4-port 100Base-FX Single Mode SC module (produced to order)

## Specifications:

<b>Performance:</b>			
Throughput:	14,880 packets per second (pps) to 10 Mbps ports 148,800 pps to 100BASE-TX ports 1,488,000 pps to 1000BASE-SX/LX ports		
Address Table Size:	14K MAC entries		
Buffer Memory:	3Mbit Packet Memory		
Flash Memory:	512K		
VLANs:	Port-based or 802.1q- Up to 256 VLANs, with GVRP for dynamic VLAN registration		
Link Aggregation:	2~4 ports can be combined into a fat pipe, 7 trunks		
Max. Distance:	UTP:	100 meters	
	Fiber:	Up to 120km (single mode)	
Management via	SNMP		
	Web browser		
	Telnet		
	Menu-driven		
	RS-232 console		
<b>Connectors and Cabling:</b>			
Ports:	3 x Fast Ethernet slots (for 8 or 4-port modules); 2 x GBIC		
Module Types:	8-Port 100Mbps LC, fiber		
	8-Port 10/100Mbps RJ-45	8-Port 100Mbps WDM fiber	
	4-Port 100Mbps SC fiber	4-Port 100Mbps ST fiber	
	2-Port Gigabit (GBIC)		
SNMP control:	Out-of- band control:	RS-232	
	In-band control:	RJ-45, Fiber	
<b>SNMP Standards:</b>			
RFC 1213	MIB II		
RFC 1493	Bridge MIB		
RFC 1643	Ethernet Interface MIB		
RFC 1757	RMON		
<b>Network Management:</b>			
System Configuration:	Console port, Telnet, Web browser, SNMP/RMON		
SNMP Standards:	SNMP Support: MIB II, Bridge MIB, Ethernet Interface MIB, RMON MIB		
RMON Groups:	1, 2, 3, 9 (Statistics, History, Alarm and Event)		
STP Algorithm:	IEEE 802.1D provides redundant link support		
<b>LEDs:</b>			
Modular Ports:	10/100Mbps	Green	Illuminates when data transmission rate 100Mbps
	LNK ACT	Green	Flashes or illuminates when transmitting or receiving data packets
	FDX	Amber	Illuminates when in full duplex mode
Gigabit Ports:	LNK ACT	Green	Flashes or illuminates when link pulses from a compliant device
PWR (Front Panel):	Green	Illuminates for normal system power operations	
<b>Standards and Compliance:</b>			
IEEE 802.3	10BASE-T specification	IEEE 802.3u	100BASE-TX and 100BASE-FX specification
IEEE 802.3x	Flow control	IEEE 802.3z	1000BASE-SX/LX specification
IEEE 802.1d	Spanning-Tree Protocol	IEEE 802.1p	Priority Queues
IEEE 802.1q	Tag-based VLAN	IEEE 802.1x	Security Protocol
IEEE 802.1v	Port-based VLAN	RFC 1350	TFTP
IEEE 802.3ad	Port Trunking	RFC 1112/1236	IGMP Snooping v1
<b>Power Characteristics:</b>			
Power Input:	100 to 240V AC (auto-ranging) 50 to 60 Hz or DC -48V		
<b>Environmental Characteristics:</b>			
Operating:	Temperature:	0°C to 50°C	
	Relative Humidity:	10% to 80%, non-condensing	
Storage	Temperature:	-20°C to 70°C	
	Humidity:	5% to 90% (non-condensing)	
<b>Electromagnetic Compatibility:</b>			
Emissions:	FCC Class A & CE approved		
<b>Dimensions:</b>			
	285 x 440 x 44mm (D x W x H)		
<b>Weight:</b>			
	5kg fully loaded		