

**Product Introduction & Benefits**



VOLKTEK's **NSH-548** Managed Access Switch is equipped with eight 10/100Base-TX ports plus one 100Base-FX port. It was designed with features like SNMP, RMON, flexible network management and monitoring options for increased efficiency and performance. Whether managing via an 'in-band' SNMP management station or Internet web browser, or 'out-of-band' via the RS-232 console port, the **NSH-548** facilitates network monitoring and troubleshooting with its user-friendly features. The **NSH-548** is a feature-rich switch, offering VLAN, spanning-tree protocol, port isolation, and much more. Special software features can also be added upon request.

Integrating Auto MDI/MDI-X and NWay capabilities, the **NSH-548** is simple to deploy within a network. Its slim housing design makes it ideal for installation in locations with limited space and in applications requiring low port density. Once installed at any premise, the **NSH-548** immediately connects the premise with the optical Ethernet.

**Main Features:**

**Standards:**

- IEEE: 802.3, 802.3u, 802.3x, 802.3ad, 802.1d, 802.1q, 802.1p

**Interface:**

- Eight 10/100Base-TX RJ-45 ports
- One dual-fiber port; ST/SC/WDM/MM/SM type
- RS-232 Console (RJ-45)

**Networking:**

- Spanning Tree and proprietary Xpress Ring Protocols
- Non-blocking, store-and-forward switching
- IGMP Snooping for multicast filtering
- Rate limitation
- Port lock
- Port isolation
- Port-based MAC address quantity limitation
- Trunk grouping
- Full VLAN (802.1q)
- CoS/ToS for service differentiation
- Supports four hardware queues

**Management:**

- Web-based GUI
- SNMP
- RMON
- Telnet/Console
- Menu-driven/Command Line
- User's IP security control to prevent illegal access
- E-mail alarm warning
- Port configuration, status, statistics, security
- Loss of link management on fiber ports
- Port mirroring

**Power:**

- 100 ~ 240V AC auto-ranging power input
- -48VDC power option available

**Mechanical & Environmental:**

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

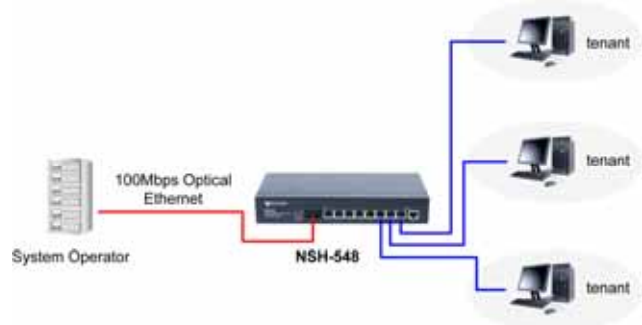


### Specifications:

<b>Standards:</b>	IEEE 802.3u 100Base-TX/FX	<b>Wavelength:</b>	1310nm (multi-mode)
	IEEE 802.3ad Port Trunking		1310/1550nm (single-mode)
	IEEE 802.3 10Base-T	<b>Max Distances:</b>	10/100Base-TX: 100m
	IEEE 802.1d Spanning Tree Protocol		RS-232: 15m
	IEEE 802.3x Flow Control		Fiber Optic: Up to 120km
	IEEE 802.1p Priority Queues	<b>Power:</b>	Power Input: 100 ~ 240VAC, 12V
	IEEE 802.1q VLAN Tagging		DC@1.5A (47Hz~63Hz)
<b>Ports:</b>	8 x 10/100Base-TX (RJ-45 )		-48VDC
	1 x 100Base-FX (ST/SC/WDM)	<b>Temperature:</b>	Operating: 0°C to 50°C
	1 x RS-232 Console (RJ-45)		Storage: -20°C to 70°C
<b>Throughputs:</b>	14,880 packets per second (pps) to 10 Mbps ports	<b>Humidity:</b>	Operating: 10% to 80% RH
	148,800 pps to 100BASE-TX/FX ports		Storage: 5% to 90% RH
<b>MAC Table:</b>	Up to 2K addresses	<b>Emissions:</b>	FCC Part 15 of Class A & CE Approved
<b>VLANS:</b>	Port-based	<b>Dimensions:</b>	128 x 268 x 44 mm (D x W x H)
	Tag-based (64VIDs)	<b>Weight:</b>	1200g

### Applications:

Designed for FTTx applications. The diagram on the right illustrates a typical MTU/MDU application for the NSH-548 series. The actual distances will depend on several factors, including the quality of the cables used and the terminal equipment employed.



### Ordering Information:

#### NSH-548MT/MC:

Managed 8-port + 1-port 100Base-FX multi-mode Switch (ST/SC Connector)

#### NSH-548D-MT/MC:

Managed 8-port + 1-port 100Base-FX multi-mode Switch with DC-48V power supply (ST/SC Connector)

#### NSH-548SC-20/40/60/80:

Managed 8-port + 1-port 100Base-FX single-mode Switch (SC Connector, 20/40/60/80km)

#### NSH-548D-SC-20/40/60/80:

Managed 8-port + 1-port 100Base-FX single-mode Switch with DC-48V power supply (SC Connector, 20/ 40/ 60/ 80km)

#### DR-037:

19" rack-mounting kit