

Product Introduction & Benefits



VOLKTEK's **NSH-5509** 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-5509** facilitates network monitoring and troubleshooting with its user-friendly features. The **NSH-5509** 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-5509** 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-5509** immediately connects the premise with the optical Ethernet.

Main Features:

Standards:

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

Interface:

- Eight 10/100Base-TX RJ-45 ports
- One 100Base-FX port
- RS-232 Console (RJ-45)

Networking:

- Spanning Tree Protocol/Rapid Spanning Tree Protocol
- Proprietary Xpress Ring protocol
- IGMP Snooping for multicast filtering
- Rate limitation & Network Storm Protection
- Port loop detection
- Port-based MAC address quantity limitation
- Full VLAN (802.1q) with double tagging (Q in Q)
- LACP
- CoS and ToS/DiffServ for service differentiation

Management:

- Web-based GUI
- SNMP
- RMON
- Telnet/Console
- 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
- +12VDC power option via terminal block

Mechanical & Environmental:

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

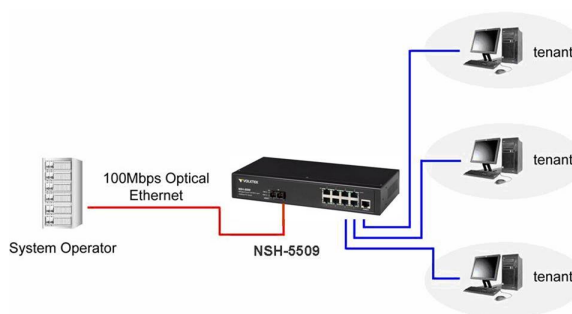


Specifications:

Standards:	IEEE 802.3u 100Base-TX/FX	QoS:	Port-based, IEEE 802.1p tag, IPv4 ToS/DiffServ, IPv6 Traffic Class, source/destination MAC address
	IEEE 802.3ad Port Trunking		
	IEEE 802.3 10Base-T	Wavelength:	1310nm (multi-mode)
	IEEE 802.1d Spanning Tree Protocol		1310/1550nm (single-mode)
	IEEE 802.1w Rapid Spanning Tree Protocol	Max Distances:	10/100Base-TX: 100m
	IEEE 802.3x Flow Control		RS-232: 15m
	IEEE 802.1p Priority Queues		Fiber Optic: Up to 110km
	IEEE 802.1q VLAN Tagging	Power:	Power Input: 100 ~ 240VAC
Ports:	8 x 10/100Base-TX (RJ-45)		-48VDC
	1 x 100Base-FX (ST/SC/WDM)		+12VDC
	1 x RS-232 Console (RJ-45)	Temperature:	Operating: 0°C to 50°C
Throughputs:	14,880 packets per second (pps) to 10 Mbps ports		Storage: -20°C to 80°C
	148,800 pps to 100BASE-TX/FX ports	Humidity:	Operating: 10% to 80% RH
			Storage: 5% to 90% RH
MAC Table:	Up to 8K addresses	Emissions:	FCC Part 15 of Class A & CE Approved
VLANS:	Port-based	Dimensions:	268 x 44 x 128 mm (W x H x D)
	Tag-based (4000VIDs)	Weight:	1200g

Applications:

Designed for FTTx applications. The diagram on the right illustrates a typical MTU/MDU application for the NSH-5509 series. The actual distances will depend on several factors, including the quality of the cables used and the terminal equipment employed.



Ordering Information:

NSH-5509MT/MC:

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

NSH-5509D-MT/MC:

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

NSH-5509SC-30/40/60/80:

Managed 8-port + 1-port 100Base-FX single-mode Switch (SC Connector, 30/40/60/80km)

NSH-5509D-SC-30/40/60/80:

Managed 8-port + 1-port 100Base-FX single-mode Switch with DC-48V power supply (SC Connector, 30/ 40/ 60/ 80km)

NSH-5509SFP:

Managed 8-port + 1-slot SFP 100Base-FX Switch

NSH-5509DSFP:

Managed 8-port + 1-slot SFP 100Base-FX Switch with DC-48V power supply

DR-037:

19" rack-mounting kit