

Product Introduction & Benefits



VOLKTEK's **NSH-542** Managed Access Switch is equipped with eight 10/100Base-TX ports. It was designed with 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-542** facilitates network monitoring and troubleshooting with its user-friendly features.

The **NSH-542** is a feature-rich switch that offers 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-542** 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.

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
- RS-232 Console (RJ-45)

Networking:

- Spanning Tree and proprietary Xpress Ring Protocols
- Automatic learning of up to 2K MAC addresses
- 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
- Port mirroring

Power:

- 100 ~ 240V AC auto-ranging power input
- -48VDC power option available
- +12VDC power option available

Mechanical & Environmental:

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



Specifications:

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

Applications:

Designed for FTTx applications. The diagram on the right illustrates a typical MTU/MDU application for the NSH-542 series. The actual distances will depend on several factors, including the quality of the cables used and the terminal equipment employed.

Ordering Information:

- NSH-542:**
Managed 8-port 10/100Base-TX Switch
- NSH-542D:**
Managed 8-port 10/100Base-TX Switch with DC-48V power supply
- NSH-542DB:**
Managed 8-port 10/100Base-TX Switch with DC+12V power supply
- DR-037:**
19" rack-mounting kit



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Specifications subject to change without prior notice.