

**Product Introduction & Benefits**

VOLKTEK's **NSH-2926** is a gigabit web smart switch. Easily boosting networking throughput, **NSH-2926** provides sixteen 10/100/1000Mbps Gigabit Ethernet ports that offer a true Gigabit connection. Users are now able to transfer large files faster and achieve real efficiency improvements with the user-friendly Web-based management interface. The **NSH-2926** also includes two mini-GBIC combo slots for flexibility in fiber connection options.



The management functions provide efficient network usage. VLAN reduces the collisions from wide broadcasting, while Port Aggregation enlarges the bandwidth of backbone connection. QoS is supported to secure the bandwidth for some bandwidth-demanded applications including VoIP or videoconference, and the 802.3x and backpressure flow control mechanisms are also supported to ensure faithful data transmission.

**Main Features:**

**Standards:**

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

**Interface:**

- 24 x 10/100/1000Base-T RJ-45 ports
- 2 x GbE SFP

**Reliance and availability:**

- 802.1d Spanning Tree Protocol (STP)/ 802.1w RSTP
- 802.3ad LACP
- Loop detection

**Traffic Control:**

- Full VLAN (802.1q) with tag base, 256 static maximum
- Port base VLAN

**Security:**

- Support IEEE 802.1x
- ARP inspection
- Port-based MAC address quantity limitation
- MAC Freeze
- Web Authentication \*

**Quality of service (QoS):**

- 802.1p Priority Queues per port:8
- 802.1p Queuing method: SPQ/WRR
- Broadcast Storm Control
- Rate limiting , port base
- Bandwidth control

**Management:**

- Web, SNMP
- DHCP Client/snooping
- SNMP v1, v2c
- RMON(1,2,3,9), MIBII, Ethernet-like MIB
- Support Management VLAN
- Port configuration, status, statistics, mirroring
- Jumbo frame (up to 2048)
- System log \*

**Power:**

- 100 ~ 240V AC auto-ranging power input

**Mechanical & Environmental:**

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

\* Available in future upgrade

**Specifications:**

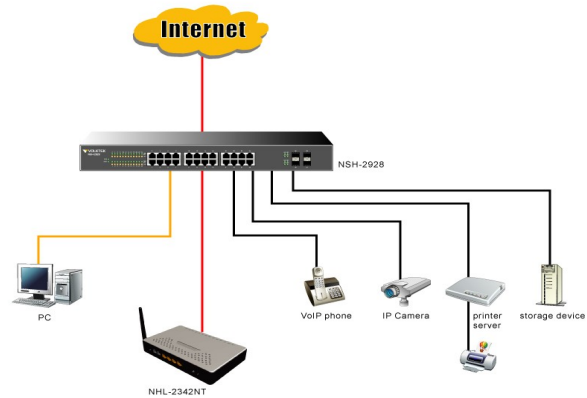
<b>Standards:</b>	IEEE 802.3	10Base-T
	IEEE 802.3u	100Base-TX
	IEEE 802.3ab	1000Base-T
	IEEE 802.3z	1000Base-SX/LX/LHX

<b>VLANs:</b>	Port-based and Tag-based
<b>Wavelength:</b>	Depend on SFP module
<b>Max Distances:</b>	10/100/1000Base-T: 100m
	Fiber Optic: Up to 110km

	IEEE 802.3x Flow Control	<b>Power:</b>	Power Input: 100 ~ 240VAC
	IEEE 802.3ad LACP aggregation		Power consumption: 30W(max)
	IEEE 802.1d STP		Current load: 0.6A
	IEEE 802.1w RSTP	<b>Temperature:</b>	Operating: 0°C to 50°C
	IEEE 802.1p Class of service		Storage: -20°C to 70°C
	IEEE 802.1q VLAN Tagging	<b>Humidity:</b>	Operating: 10% to 80% RH
<b>Ports:</b>	24 x 10/100/1000Base-T (RJ-45)		Storage: 5% to 90% RH
	2 x GbE SFP	<b>Emissions:</b>	FCC Part 15 of Class A & CE Approved
<b>Throughputs:</b>	14,880/148,800/1,488,000 packets per second (pps) to 10/100/1000 Mbps	<b>Safety:</b>	EN 60950-1
<b>MAC Table:</b>	ports Up to 8K addresses	<b>Dimensions:</b>	173 x 440 x 44 mm (D x W x H)
		<b>Weight:</b>	2.3kg

**Applications:**

Designed for FTTx applications. The diagram on the right illustrates a typical MTU/MDU triple-play application for the NSH-2926 series. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.



**Ordering Information:**

**NSH-2926:**  
Web Smart 24-Port 10/100/1000Base-T+2G SFP L2 Switch

**GBM-104:**  
Mini GBIC, 1.25G SFP-type Multi-mode, 3.3V - 500m

**GBM-104-10:**  
Mini GBIC, 1.25G SFP-type Single-mode, 3.3V - 10km

**\*GBM-104-30:**  
Mini GBIC, 1.25G SFP-type Single-mode, 3.3V - 30km

**GBM-123TS:**  
Mini GBIC, 1.25G SFP-type Single-mode,WDM, Tx1310/Rx1550nm, 3.3V - 10km

**GBM-123RS:**  
Mini GBIC, 1.25G SFP-type Single-mode,WDM, Tx1550/Rx1310nm, 3.3V - 10km

\* Longer distances available by request, call for details.

(May 2010)  
Specifications subject to change without prior notice.