

Product Introduction & Benefits

VOLKTEK's **INS-808** Managed Industrial Switch is equipped with six 10/100Base-TX ports and two combo 10/100/1000Mb slots (fiber option is SFP-type 1000Base-SX/LX/LHX) delivered in a rugged, hardened case. It features industrial components that are able to withstand a high degree of vibration and shock – and it can operate in temperatures as high as 70°C.

The **INS-808** has 2 fiber ports that are immune to moisture, static electricity, power surges and short-circuits – and they minimize the effects of lightning strikes.

Featuring complete manageability via Web, SNMP, Telnet and Console, the **INS-808** is an ideal solution for industrial network applications which require managed devices that offer hassle-free fiber deployment. The **INS-808's** Xpress Ring technology offers a very fast recovery time of less than 50ms in case of any link failure.

**Main Features:****Standards:**

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

Interface:

- Six 10/100Base-TX RJ-45 ports
- Two 1000Base-SX/LX/LHX SFP slots
- Two 10/100/1000Base-T ports
- Full-spectrum fiber optics
- RS-232 Console (RJ-45)

Networking:

- Xpress Ring (redundant ring recovery < 50ms)
- Spanning Tree Protocol
- Automatic learning of up to 8192 MAC addresses
- Non-blocking, store-and-forward switching
- Auto-negotiation on all 10/100Base-TX ports
- Auto-MDI/MDIX on all 10/100Base-TX ports
- IGMP Snooping for multicast filtering
- Rate limitation
- Full VLAN (802.1q) and VLAN QinQ
- CoS/ToS for service differentiation
- Four hardware queues

Management:

- Alarm contact relay
- Web-based GUI
- SNMP
- RMON
- E-mail alarm warning
- DIP switch to enable or disable alarm functions
- Port configuration, status, statistics, security
- Loss-of-link management on fiber ports
- Port mirroring

Power:

- Dual redundant DC power inputs
- Power Terminal Block
- Wide voltage range: 9~48V
- Power-input polarity protection function
- Under-power & over-power detection function
- Overload current protection
- Surge protection

Mechanical & Environmental:

- Rugged, hardened IP30 case
- Vibration/Shock operational
- Operating temperature: 0°C~70°C



Specifications:

Standards:	IEEE 802.3ab 1000Base-T	Throughputs:	14,880/148,800/1,488,000 packets per second (pps) to 10/100/1000 Mbps ports
	IEEE 802.3z 1000Base-SX/LX/LHX	Wavelength:	Depend on SFP module
	IEEE 802.3u 100Base-TX	Max Distances:	10/100Base-TX: 100m
	IEEE 802.3ad Port Trunking	RS-232:	15m
	IEEE 802.3 10Base-T	Fiber Optic:	Up to 110km
	IEEE 802.1d Spanning Tree Protocol	Power:	Power Input: 9 ~ 48V DC
	IEEE 802.3x Flow Control	Temperature:	Operating: 0°C to 70°C
	IEEE 802.1p Priority Queues	Storage:	-20°C to 80°C
	IEEE 802.1q VLAN Tagging	Humidity:	Operating: 10% to 95% RH
Ports:	6 x 10/100Base-TX (RJ-45)	Storage:	5% to 95% RH
	2 x 1000Base-SX/LX/LHX (SFP)	Emissions:	FCC Part 15 of Class A & CE Approved
	2 x 1000Base-T (RJ-45)	Dimensions:	120 x 50 x 162 mm (D x W x H)
	1 x RS-232 Console (RJ-45)	Weight:	780g
MAC Table:	Up to 8K addresses		
VLANs:	Port-based and Tag-based (4000VIDs)		

Applications:

- Industrial/Factory/Laboratory automation SCADA systems
- Power utility control network
- Transportation data communication network
- Factory robots and HVAC control systems
- Hospital automation network
- Surveillance network for security cameras or other remote-monitoring devices



Ordering Information:

INS-808: 6-Port 10/100Base-TX + 2-Slot Combo Gigabit SX/LX/LHX (SFP + RJ-45) Managed Industrial Switch	GBM-104-30: Mini GBIC, 1.25G SFP-type Single-mode, 3.3V - 30km
GBM-104: Mini GBIC, 1.25G SFP-type Multi-mode, 3.3V - 500m	GBM-104-50: Mini GBIC, 1.25G SFP-type Single-mode, 3.3V - 50km
GBM-104-10: Mini GBIC, 1.25G SFP-type Single-mode, 3.3V - 10km	GBM-104-70: Mini GBIC, 1.25G SFP-type Single-mode, 3.3V - 70km
	GBM-104-110: Mini GBIC, 1.25G SFP-type Single-mode, 3.3V - 110km

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Specifications subject to change without prior notice.