

Product Introduction & Benefits

VOLKTEK's **INS-807** Industrial Managed Switch is a 4-port 10/100Base-TX plus 4-slot 100Base-FX (SFP) switch delivered in a rugged, hardened case. It was designed with industrial components that are able to withstand a high degree of vibration and shock and can operate in high temperature up to 70°C.

The **INS-807** with 4 fiber ports is immune to moisture, static electricity, power surges, short-circuits and even minimizes the effects of lightning strikes.

With full management capability through Web and SNMP, the **INS-807** becomes an ideal solution for industrial network applications that require managed devices coupled with hassle-free fiber deployment. The **INS-807**'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, 802.1d, 802.1q, 802.1p, 802.3ad

Interface:

- Four 10/100Base-TX RJ-45 ports
- Two SFP slots
- Full-spectrum fiber optics
- RS-232 Console (RJ-45)

Networking:

- Xpress Ring (redundant ring recovery < 50ms)
- Ring Coupling
- Spanning Tree Protocol
- Automatic learning of up to 2048 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)
- CoS/ToS for service differentiation
- Four hardware queues

Management:

- Alarm relay contact
- 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

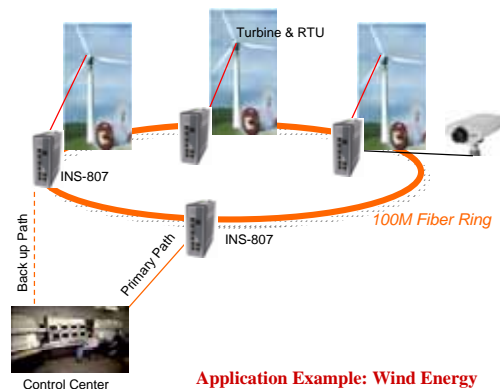


Specifications:

Standards:	IEEE 802.3u 100Base-TX	Throughputs:	14,880/148,800 packets per second (pps) to 10/100 Mbps ports
	IEEE 802.3ad Port Trunking	Wavelength:	Depend on SFP module
	IEEE 802.3 10Base-T	Max Distances:	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	Power:	Power Input: 9 ~ 48V DC
	IEEE 802.1q VLAN Tagging	Temperature:	Operating: 0°C to 70°C
Ports:	4 x 10/100Base-TX (RJ-45)	Storage: -20°C to 80°C	
	4 x 100Base-FX (SFP)	Humidity:	Operating: 10% to 95% RH
	1 x RS-232 Console (RJ-45)	Storage: 5% to 95% RH	
MAC Table:	Up to 2K addresses	Emissions:	FCC Part 15 of Class A & CE Approved
VLANs:	Port-based and Tag-based (64VIDs)	Dimensions:	120 x 50 x 162 mm (D x W x H)
		Weight:	780g

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-807:

4-Port 10/100Base-TX + 4-Slot 100Base-FX (SFP)
Managed Industrial Switch

FPM-107:

1310nm, 3.3V 100Base-FX Multi-mode SFP Module, 2km

FPM-107-30/60:

1310nm, 3.3V 100Base-FX Single-mode SFP Module,
30/60km

FPM-107-100/120:

1550nm, 3.3V 100Base-FX Single-mode SFP Module,
100/120km