

## INS-803 7-port 10/100Base-TX + 2-Slot 100Base-FX Managed Industrial Switch



### Product Introduction & Benefits

VOLKTEK's INS-803 Series Industrial Switch is a 7-port 10/100Base-TX with Dual 100Base-FX port (Small Form Pluggable (SFP) module optional) switch delivered in a rugged, hardened case and components able to withstand a high degree of vibration and shock and temperatures as high as 70°C. Not an ordinary office switch, the INS-803 Switch is engineered and designed especially for harsh, industrial type applications. With its hardened case, redundant DC power inputs, fiber optic uplinks, and high performance components, the INS-803 is perfectly suited for your industrial automation environment.

Boasting full management capability through Web and SNMP, the INS-803 becomes an ideal solution for industrial network applications that require managed devices coupled with hassle-free deployment and setup. The INS-803's JET Ring offers faster recovery time of less than 300ms in case of any node failure.



### Main Features:

- 7 x 10/100 Mbps ports
- 1 x RJ-45 console port (RS-232)
- Dual Redundant 100Base-FX ports with SFP type fiber transceivers
- Web based / SNMP Management
- Rugged, hardened IP30 case
- Vibration/Shock operational
- Dual redundant DC power inputs
- Power Terminal Block
- Wide voltage range: 9~48V
- DIP switch to enable or disable alarm functions
- Power input polarity protection function
- Under power & over power detection function
- Operating temperature: 0°C~70°C
- Full compliance with IEEE: 802.3, 802.3u, 802.3x, 802.1D, 802.1Q, 802.1p
- JET Ring (redundant ring capability < 300 ms)
- Non-blocking, store and forward switching
- Automatic learning of up to 8192 MAC addresses
- Auto-negotiation on all 10/100BaseTX ports
- Auto-MDI/MDIX (crossover) on all 10/100BaseTX ports
- Full VLAN (802.1q) VID processing with double tagging up to 64VIDs
- IGMP Snooping for multicast filtering
- Port configuration, status, statistics, security
- Loss of link management on fiber ports
- SNMP v2 and RMON

### Applications:

- Industrial/Factory/Laboratory automation SCADA systems
- Self-service banking systems
- Factory robots and HVAC control systems
- Wafer fabrication systems
- Point of Sale (POS) systems
- Security cameras or other remote distributed serial devices
- Rugged, hardened case and industrial grade components able to withstand extreme vibration/shock.

### Ordering Information:

#### **INS-803:**

7-port 10/100Base-TX + 2-Slot 100Base-FX 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

## Specifications:

### Standards:

IEEE 802.3u 100Base-TX/FX	IEEE 802.3ad Port Trunking
IEEE 802.3 10Base-T	IEEE 802.1d Spanning Tree Protocol
IEEE 802.3x Flow Control	IEEE 802.1q VLAN Tagging
IEEE 802.1p Priority Queues	

### Ports:

- 1 x RS-232 (RJ-45)
- 7 x 10/100Base-TX (RJ-45 )
- 2 x SFP 100Base-FX Fiber

### Wavelength:

- 1310nm (multi-mode)
- 1310nm (single mode)

### Max Distances:

10/100Base-TX:	100m
RS-232:	15m
Fiber Optic:	Up to 120km

### Power:

Power Input: 9 ~ 48V DC / 1.5A

### Temperature:

Operating:	0°C to 70°C
Storage:	-20°C to 80°C

### Humidity:

Operating:	10% to 80% RH
Storage:	5% to 90% RH

### Compliance:

FCC Part 15 of Class A & CE Approved

### Dimensions:

120 x 50 x 162 mm (D x W x H)

### Weight:

780g

