

INS-802

Unmanaged Industrial Ethernet Switch

8-port 10/100Base-TX + 2-slot 100Base-FX SFP



Description

The INS-802 is an unmanaged industrial switch equipped with 8-port 10/100Base-TX, dual fiber uplinks and redundant DC power inputs, an ideal solution for deployment in multiple high-speed automation systems. With its dry-contact smart alarm, the INS-802 initiates an alarm function that can be seen and heard on the factory floor in the event of any malfunction. The INS-802 operates in wide temperatures ranging from -40°C to 75°C and absorbs higher than normal degrees of vibration and shock, making it perfectly suitable and safe choice for harsh industrial environments.

The INS-802 is designed to deliver high performance in industrial environments where vibration, shock, heat, and RF interference is commonplace. Small and compact design of the switch makes DIN-rail mounting and installation very easy, especially in places where space is limited. The switch can be expanded by cascading two or more switches together in a 'daisy-chain' fashion. The switch combines dynamic memory allocation with store-and-forward switching to ensure that the buffer is effectively allocated for each port, while controlling the data flow between the transmit and receive nodes to guarantee against all possible packet loss.



Features Highlight

Robust Switch Performance

With IP30 aluminum case, surge protection, power voltage drop alarm, and ESD protection, the INS-802 provides a high level of immunity against electromagnetic interference and heavy electrical surges which are easy to deploy in industrial environments. Furthermore, the INS-802 offers high performance switch architecture with 8 ports of 10/100Based-TX and 2-slot 100Base-FX SFP to meet the requirements of high-bandwidth access Ethernet, Fast Ethernet in tough operating temperatures.



Redundant Power System

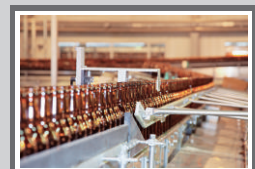
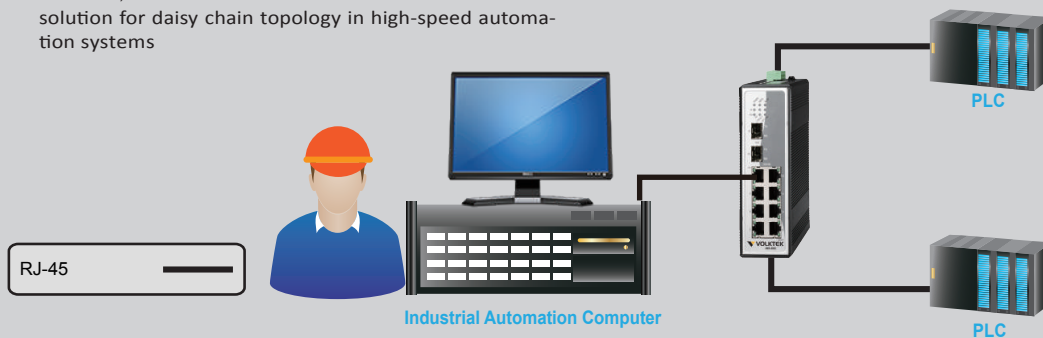
Mission-critical industrial applications need to operate without any interruptions because even a minimum network downtime can hugely impact the overall output. Providing continuous power and as well as data to such applications is now made easy with INS-802's redundant power system. The switch is designed with standard industrial terminal block for redundant power. In case the primary power supply fails, the secondary power will powers up the switch and enables switch to provide continuous services.

Simplified Installation w/ Rugged Size

The INS-802 provides varied choice of deployment locations even in harsh environments with wall-mount, Din-Rail options in a quick and easy way with no configuration required. Every INS-802 is equipped with auto MDI/MDI-X on all ports for simple connection to other devices. With diagnostic LEDs panel, the INS-802 allows you to know switch status and simplify troubleshooting.

Applications

The INS-802 is compatible with 10/100Mbps through RJ45 transceivers to guarantee a strong, stable connection of Ethernet, Fast Ethernet. Its dual SFP slots as an ideal solution for daisy chain topology in high-speed automation systems



Specifications

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX/FX
IEEE 802.3x	Flow Control
Performance	
Throughput	14,880 pps to 10 Mbps ports 148,800 pps to 100 Mbps ports
Switch Fabric	2Gbps
MAC Table size	2K
Jumbo Frame	9K
Power	
Primary/Redundant inputs	9~48V DC
Connection	One removable 6-pin terminal block
Power Input Polarity Protection	Present
Power Voltage Drop Alarm	Present
Power Consumption	4W (Max)
ESD Protection	8KV
Interface	
Ports	8 x 10/100Base-TX (RJ45) 2 x 100Base-FX
Mechanical and Environment	
Housing	Aluminum (IP30 protection)
Mounting	DIN-Rail
Operating Temperature	-40°C to 75°C
Storage Temperature	-40°C to 85°C
Operating Humidity	10 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	780g
Dimension (WxHxD)	50x164.9x122.2mm (1.97x6.49x4.81inch)

Standards and Certifications		
CE	EMI	FCC Part 15 Subpart B class A EN 55011 IEC/EN 60601-1-2
	EMS	EN 61000-6-2 IEC/EN 61000-4-2 (ESD) : Level 3 IEC/EN 61000-4-3 (RS) : Level 3 IEC/EN 61000-4-4 (Burst) : Level 3 IEC/EN 61000-4-5 (Surge) : Level 2 IEC 61000-4-6 (CS) : Level 3
Approval & Test		
Shock	IEC 60068-2-27	
Freefall	IEC 60068-2-32	
Vibration	IEC 60068-2-6	
Ordering Information		
INS-802	8-port 10/100Base-TX + 2-slot 100Base-FX SFP Unmanaged Industrial Switch	
Optional Accessories		
Power Supply	SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C	
FPM-107	100Base-FX Multi-mode SFP, 2Km	
FPM-107-30	100Base-FX Single mode SFP, 30Km	
GBM-132TS	100Base-FX, Bi-Di SFP TX:1310/RX:1550, Single mode, 20KM	
GBM-132RS	100Base-FX, Bi-Di SFP TX:1550/RX:1310, Single mode, 20KM	

*Specifications subject to change without notice.

Dimension

