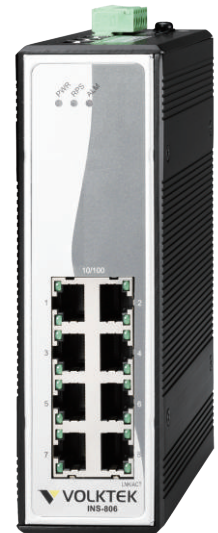


INS-806

Unmanaged Industrial Ethernet Switch

8-port 10/100Base-TX



Description

The INS-806 unmanaged industrial switch is a hardened, 8-port 10/100Base-TX Ethernet Switch with redundant DC power inputs as an ideal solution to deploy in multiple high-speed automation system. It is designed to provide a reliable and economic solution for industrial Ethernet environments. With its dry-contact smart alarm, the INS-806 can initiate an alarm function that can be seen and heard on the factory floor in the event of any malfunction. The INS-806 operates in temperatures ranging from -40°C to 75°C and it is designed to absorb higher than normal degrees of vibration and shock, making it a suitable and safe choice for harsh industrial environments.

The INS-806 was designed for easy installation and high performance in an industrial environment where vibration, shock, heat, and RF interference might be commonplace. It is small and compact because it is specifically designed for easy DIN-rail mounting and for installation in places where space is limited. 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 protection, surge, power voltage drop alarm, and ESD protection, the INS-806 provides a high level of immunity against electromagnetic interference and heavy electrical surges which are easy to deploy in industrial environments. Furthermore, the INS-806 offers high performance switch architecture with 8 ports of 10/100Based-TX 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-806'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-806 provides varied choice of deployment locations even in small places, harsh environments with its wall-mount, Din-Rail options in a quick, easy way and no configuration required. Every INS-806 is equipped with auto MDI/MDI-X on all ports for simple connection to other switches and hubs. With diagnostic LEDs panel, the INS-806 allows you to know switch status and simplify troubleshooting.

Applications

The INS-806 is compatible with 10/100Mbps through RJ45 transceivers to guarantee a strong, stable connection of Ethernet, Fast Ethernet, as an ideal for deployment in multiple high-speed automation systems



Specifications

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3x	Flow Control
Performance	
Throughput	14,880 pps to 10 Mbps ports 148,800 pps to 100 Mbps ports
Switch Fabric	1.6Gbps
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)
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)	50x164.9x119.9mm (1.97x6.94x4.72inch)

Standards and Certifications		
CE	EMI	FCC Part 15 Subpart B class A EN 55011 IEC/EN 60601-1-2
	EMS	EN 6100-6-2 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-806	8-Port 10/100Base-TX Unmanaged Industrial Switch	
Optional Accessories		
Power Supply	SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C	

*Specifications subject to change without notice.

Dimension

