VOLKTEK

INS-8005

Unmanaged 5 x 10/100 RJ45 Industrial Switch

Description

INS-8005 is an unmanaged industrial Fast Ethernet switch with 5 auto-negotiation 10/100 Mbps downlink ports to expand Ethernet networks in factory floors and for high demanding environments with simple requirements and limited space.

The switch offers auto-negotiation on all its ports to send data across devices efficiently in industrial Ethernet applications and in-built traffic optimization to have stable performance.

This networking device is built with industrial grade components to protect it from hazards like vibration, shock, free fall, interference, and extreme temperatures that make it resistant to harsh industrial environments.

RoHS CE FC

IP Code 30 | DIN Rail | Auto Negotiation | -40°C 75°C Wide Temperature | Surge Protection | ESD Protection | Wall Mount

Features Highlight

Ruggedized Components Designed for Harsh Industrial Environments

Built with industrial-grade components, good thermal conductivity, and enclosed in an IP30 metal case, this Ethernet switch is resistant to extreme environments, vibration, EMI (electromagnetic interference), ESD (electrostatic discharge), power surge, over-voltage, over-current, and reverse polarity. It withstands operation at extreme temperatures between -40°C~75°C (-40°F~167°F). It follows international safety standards like CE, FCC, and ROHS for safe operation.

Cold -40°C   Hot 75°C

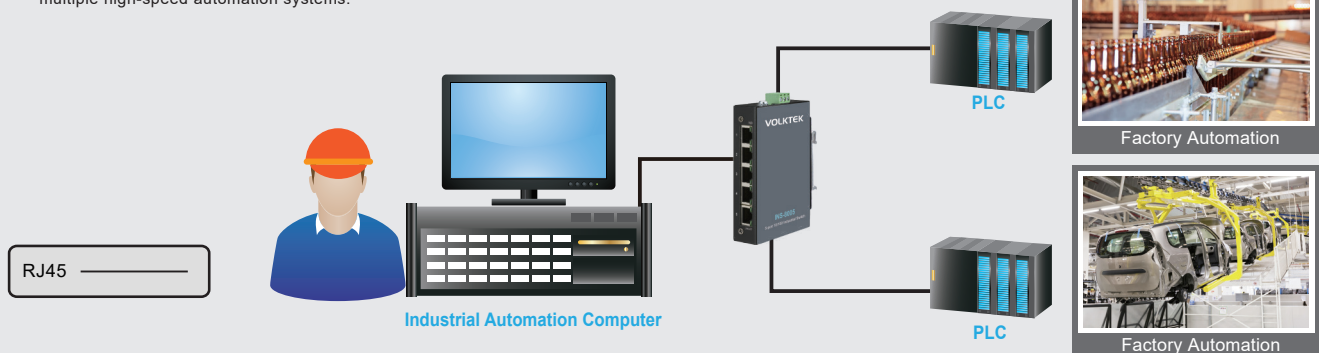### Quick and Convenient Installation with Auto-negotiation

INS-8005 works as soon as it is connected and makes installation convenient. One 18~30VDC power supply connects to the 3-pin terminal block for power. The 10/100 Mbps ports use MDI/MID-X connection for auto-negotiation to work as soon as connected to other network devices at the required speed without extra software installation needed. The LED light displays when the device is in on. It withstands operation at extreme temperatures between -40°C~75°C. Its versatile slim design allows it to fit at different locations and can be mounted to a standard TH35 DIN rail.

Traffic Control Mechanisms to Optimize Bandwidth Usage

Traffic control mechanisms regulate excessive traffic to avoid delay, data loss and connection issues between devices. This unmanaged switch offers mechanisms such as Flow and Storm Control that prevent devices from overwhelming each other during the exchange of data and to keep the flux at a tolerable rate, hence keeping devices working within their capacity and avoiding the network from collapsing.

Applications

The INS-8005 is compatible with 10/100/1000Mbps through RJ45 transceivers to guarantee a strong, stable connection of Ethernet, Fast Ethernet or Gigabit Ethernet, as an ideal solution for deployment in multiple high-speed automation systems.

RJ45

Industrial Automation Computer

PLC

PLC

Factory Automation

Factory Automation

VOLKTEK

Specifications

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3x	Flow Control
Interface	
Ports	5 x 10/100Base-TX (RJ45)
LED Panel	PWR, 100, LNK/ACT
Features	
Performance	Jumbo Frame Size: 1536 Bytes
	MAC Table size: 2K
	Throughput: 14,880 pps to 10 Mbps ports
	148,800 pps to 100 Mbps ports
	Switch Fabric: 1.0Gbps
Power	
Input Voltage	18~30VDC System: 3W
Connection	Terminal block
Power Consumption	3W
Surge Protection	6KV
ESD Protection	8KV
Mechanical and Environment	
Housing	Aluminum (IP30 Protection)
Mounting	DIN-Rail, Wall Mount
Operating Temperature	-40°C~75°C (-40°F~167°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Operating Humidity	5 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	145 g (0.3 lb)
Dimension (WxHxD)	23.4 x 109.2 x 73.8 mm (0.92 x 4.29 x 2.9 in)

Standards and Certifications			
CE	**EMI**		FCC Part 15 Subpart B class A EN 55022
			EN 55011
			EN 61000-6-4
	EMS		EN 55024
			EN 61000-6-2
			EN 61000-4-2 (ESD): Level 3
			EN 61000-4-3 (RS): Level 3
			EN 61000-4-4 (Burst): Level 3
			EN 61000-4-5 (Surge): Level 2
			EN 61000-4-6 (CS): Level 3
Marine			DNV 2.4, IEC-60945, IACS E10
Shock Test			IEC 60068-2-27
Freefall Test			IEC 60068-2-32
Vibration			IEC 60068-2-6
Ordering Information			
INS-8005			Unmanaged 5 x 10/100 RJ45 Industrial Switch

Specifications subject to change without notice.

Dimension