

INS-8005A

Unmanaged 5 x 10/100 RJ45 Industrial Switch

Description

INS-8005A 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 with Flow and Storm Control Features to offer reliable performance. The device also transfers VLAN packets to their destination.

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.



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.



Quick and Convenient Installation with Auto-negotiation

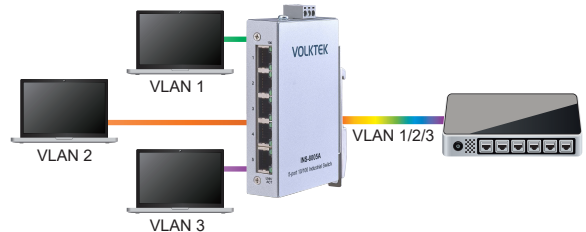
INS-8005A works as soon as it is connected and makes installation convenient. One 12~48VDC power supply connects to the 3-pin terminal block for power. The 10/100 Mbps ports use auto MDI/MDI-X connection for auto-negotiation to work as soon as connected to other network devices at the required speed without extra software installation needed. The LED light displays when the device is in operation. The slim and small design allows it to fit at different locations for many devices to operate in the same network 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.

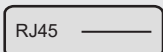
Intelligent VLAN Data Forwarding

INS-8005A is aware enough to read the source and destination of VLAN tagged data packets. This unmanaged switch delivers VLAN packets without changing or dropping them assuring operational data in industrial fields is delivered safely across devices.



Applications

The INS-8005A is compatible with 10/100Mbps through RJ45 ports to guarantee a strong, stable Fast Ethernet connection and ideal for deployment in multiple automation systems.



Specifications

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3	Nway Auto-Negotiation
IEEE 802.3x	Flow Control
Interface	
Ports	5 x 10/100Base-TX (RJ45)
Features	
Performance	Jumbo Frame Size: 1552 Bytes
	MAC Table size: 1K
	Throughput: 14,880 pps to 10 Mbps ports
	148,800 pps to 100 Mbps ports
Switch Fabric: 1.0Gbps	
QoS	Broadcast storm protection for broadcast packet
Power	
Input Voltage	12~48VDC, 0.2A max
Connection	Terminal block
Power Input Polarity Protection	Present
Current Overload Protection	Present
Power Consumption	3W
Mechanical and Environment	
Housing	Aluminum (IP40 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	180 g (0.4 lb)
Dimension (WxHxD)	23.6 x 111.5 x 73.8 mm (0.93 x 4.39 x 2.90 in)

Standards and Certifications		
CE	EMI	FCC Part 15 EN 55011 EN 55032 Class B EN 61000-6-4
	EMS	EN 55024 EN 61000-6-2 IEC 61000-4-2 (ESD): Level 3 IEC 61000-4-3 (RS): Level 3 IEC 61000-4-4 (Burst): Level 3 IEC 61000-4-5 (Surge): Level 3 EN 61000-4-6 (CS): Level 3 IEC 61000-4-8 (PFMF)
Shock Test		IEC 60068-2-27
Freefall Test		IEC 60068-2-32
Vibration		IEC 60068-2-6
Ordering Information		
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Note:

* The highest degree of temperature operation certified by UL is -40°C~75°C (-40°F~167°F).

* Specifications subject to change without notice.

Dimension

