VOLKTEK

INS-8008A
Unmanaged 8 x 10/100 RJ45 Industrial Switch

Description

INS-8008A is an unmanaged industrial Fast Ethernet switch with 8 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 and prevent packet loss transporting VLAN packets without modifying them.

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.

INS-8008A

RoHS CE FC

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-8008A 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 compact design and short height 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.
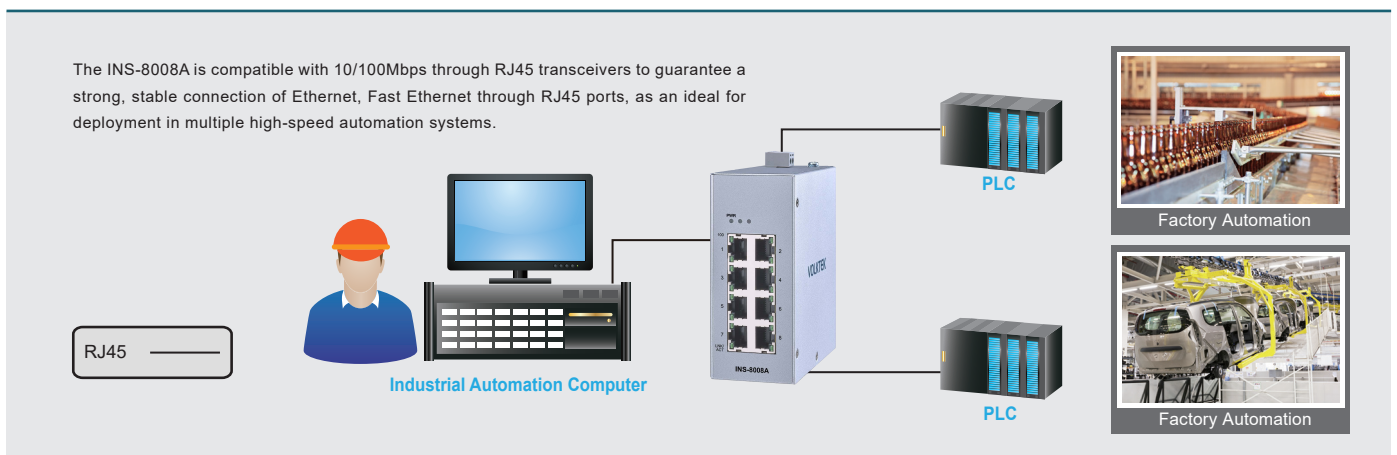
Traffic Control Mechanisms to Optimize Bandwidth Usage

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-8008A 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-8008A is compatible with 10/100Mbps through RJ45 transceivers to guarantee a strong, stable connection of Ethernet, Fast Ethernet through RJ45 ports, as an ideal 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 802.3	Nway Auto-Negotiation
IEEE 802.3x	Flow Control

Interface	
Ports	8 x 10/100Base-TX (RJ45)
LED Panel	PWR, 100, LNK/ACT

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: 1.6Gbps
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	Metal (IP40 Protection)
Mounting	DIN-Rail
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	435 g (1.0 lb)
Dimension (WxHxD)	50 x 119.2 x 99.9 mm (1.97 x 4.69 x 3.93 in)

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
		IEC61000-4-8 (PFMF)
Shock Test		IEC 60068-2-27
Freefall Test		IEC 60068-2-31
Vibration		IEC 60068-2-6
Green Product		RoHS
Safety		UL 61010-1, UL 61010-2-201

Ordering Information	
INS-8008A	Unmanaged 8 x 10/100 RJ45 Industrial Switch

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