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INS-8408A

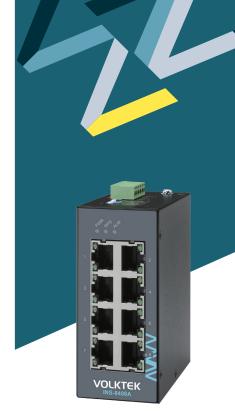
Unmanaged 8 x 10/100/1000 RJ45 Industrial Switch

Description

INS-8408A is an unmanaged industrial Gigabit Ethernet switch with 8 auto-negotiation 10/100/1000 Mbps downlink ports for communication between controllers and devices in automation settings. The device can be used with multi-axis robots and their peripherals such as PLCs, HMIs, and legacy devices.

The switch offers various in-built traffic optimization and network performance features to prioritize and prevent the loss of data during communication, like flow control, VLAN Passthru and per-port Quality of Service to ensure the delivery of high priority data.

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. The device also uses a Redundant Power Supply and Alarm System to ensure it works uninterruptedly, even during power outages and alert technicians if one power source fails, or if a port is disconnected.





















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

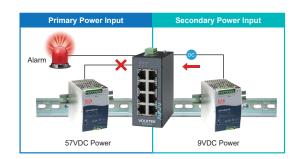
INS-8408A works as soon as it is connected and makes installation convenient. Two 9~57VDC power supplies and an alarm can connect to the 6-pin terminal block for power and notifications. The 10/100/1000 Mbps ports use auto MDI/MDI-X connection for auto-negotiation to work with other network devices quickly after plugged and at the required speed without extra software installation needed. The LED signals show when the device is in operation. Its versatile compact design allows it to fit in cabinets and other areas with limited space and can be fixed to a standard TH35 DIN rail for stable installation.

Traffic Control Mechanisms to Optimize Bandwidth Usage

Traffic control mechanisms regulate excessive traffic to avoid delay, data loss and connection issues between devices. INS-8408A uses Flow Control to prevent devices from overwhelming each other during the exchange of data hence keeping devices working within their capacity.

Redundant Power Supply and Alarm System

Two power supplies and one alarm connect to the 6-pin terminal block of this device to ensure it is powered all the time. When one of the connected power supplies stops working or in case of power outage, the device feeds power from the alternative power source and switches the alarm on. The alarm also alerts when a port is disconnected. The Alarm signal on the LED panel lights up. The alarm notifications can be activated through the DIP switch on its physical interface.

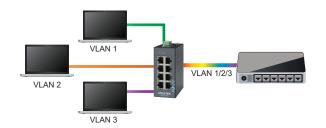


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Features Highlight

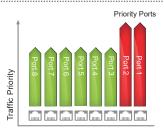
Intelligent VLAN Data Forwarding

INS-8408A unmanaged switch is aware enough to read the source and destination of VLAN tagged data packets. This switch delivers VLAN packets without changing or dropping them assuring operational data in industrial fields is delivered safely across devices.

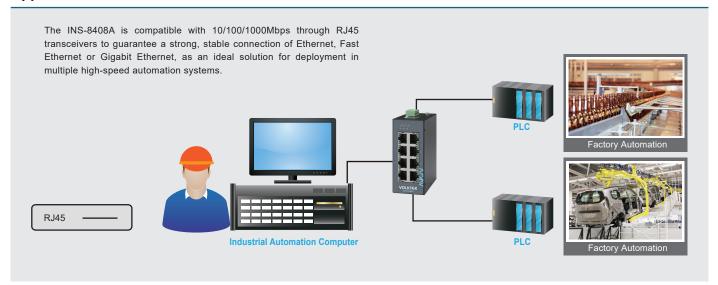


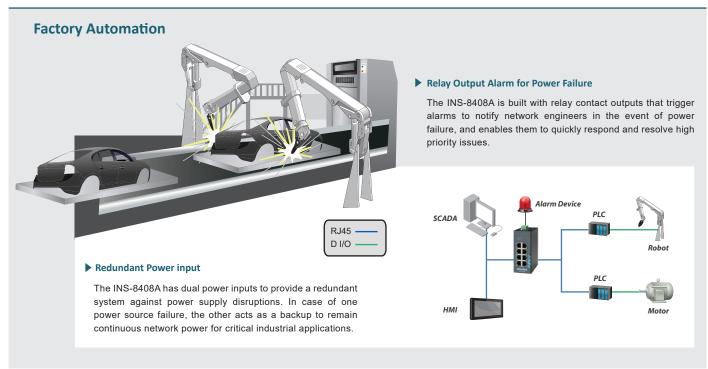
Critical Data Transmission Priority

INS-8408A streamlines the execution of time-sensitive applications with the 802.1p Tag QoS by classifying data into high and low priority. Additionally mission-critical applications in industrial automation like manufacturing and monitoring can be done without delay through port priority on ports #1 and #2 even during high traffic.



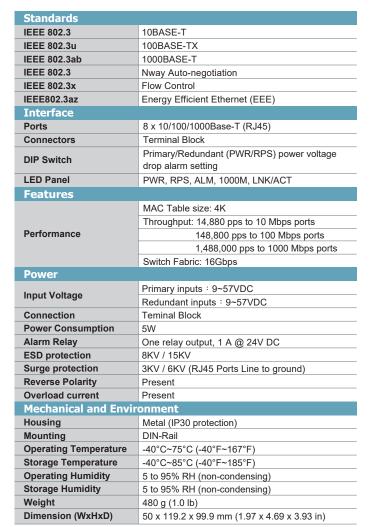
Applications





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Standards and Certifications		
CE	ЕМІ	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)
		EN 61000-4-3 (RS)
		EN 61000-4-4 (Burst)
		EN 61000-4-5 (Surge)
		EN 61000-4-6 (CS)
		EN 61000-4-8 (PFMF)
		EN 61000-4-11
Shock Test		IEC 60068-2-27
Freefall Test		IEC 60068-2-32
Vibration		IEC 60068-2-6
Safety		UL 61010-1, UL 61010-2-201
Ordering Information		
INS-8408A		Unmanaged 8 x 10/100/1000 RJ45 Industrial
		Switch
Optional Accessories		
Power Supply		SDR-120-48: 120W DIN-Rail 48VDC Industrial
		Power Supply, -25°C~70°C (-13°F~158°F)

Notice

- * The highest degree of temperature operation certified by UL is -40°C~60°C (-40°F~140°F).
- * Specifications subject to change without notice

Dimension

