VOLKTEK

IEN-9428-RW

Unmanaged 8 x 10/100/1000 RJ45 & 2 x FX/GbE SFP Industrial Switch, Railway Approval

Description

IEN-9428-RW is an 8-port 10/100/1000 RJ45 downlink and 2-port FX/GbE SFP uplink unmanaged industrial-grade switch designed to meet the thermal requirements and environmental conditions of railway applications. The downlink ports connect to industrial devices and controllers. The fiber ports allow noise-free Gigabit Ethernet transmission for fast recovery, reliable and long-distance to other switches or

To keep a stable transmission of video and data the device uses rate limitation and QoS (Quality of Service) and prioritizes industrial applications using protocols like EIP, PROFINET, and GOOSE. The device allows users to change data priority and speed settings pushing the DIP switch.

This switch is built with industrial-grade components, enclosed in an IP30 aluminum case with high thermal conductivity to protect the device from tools and hazards. To ensure reliability the redundant power supply and alarm relay contact on the terminal block ensures non-stop operations and issues alerts if power fails. Designed to withstand vibration, shock, free fall, and temperatures ranging from -40°C~75°C (-40°F~167°F) it suits places like tunnels.















Features Highlight

Robust Switch Performance

IEN-9428-RW is enclosed within IP30 aluminum case and can able to sustain harsh temperature ranging between -40°C ~ 75°C. Along with this, the switch is built with various protection features such as ESD Protection, Surge Protection and Reverse Polarity Protection to deliver non-stop PoE service to the Powered Devices.



To guarantee power runs continuously the switch is designed to be simultaneously connected to two power supplies and an alarm through a standard industrial terminal block. If one power supply stops working the switch will start feeding its power on the alternative power supply and the alarm will go off to notify technicians about the event.

Advanced QoS Support

Understanding the need of smoother data transmissions for specific surveillance applications, the IEN-9428-RW supports IEEE 802.1p Quality of Service (QoS) which enhances bandwidth utilization to ensure time sensitive data gets delivered efficiently to mission-critical applications without any delay even during burst of high traffic. Addition to the beneficial fetures, the switch is also configured with efficient Storm Control functionalities which can only allow the traffic of a predefined rate. Both the QoS and Storm Control function can easily managed by DIP Switch without any burden of manual enable and disable.

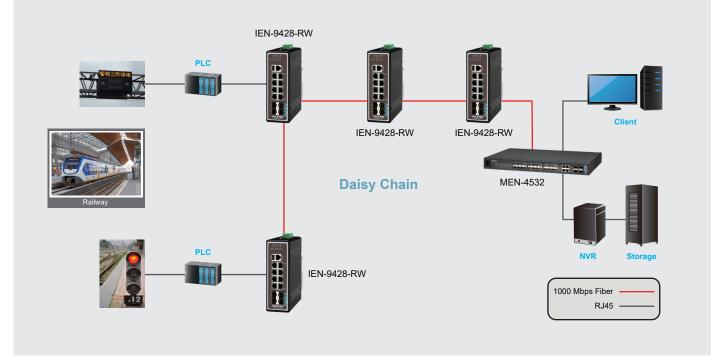
Eco-friendly Green Ethernet Design

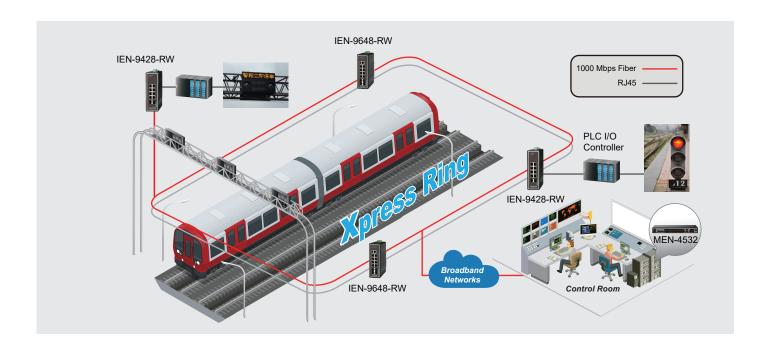
To address the concerns of increasing power consumption, IEN-9428-RW implements IEEE 802.3az Energy Efficient Ethernet (EEE) compliant Green Ethernet technology. This eco-friendly design allows the switch to automatically adjust power consumption and conserve energy during the periods of low data activity. This helps you to lower the energy usage significantly and help you save operational costs.



Applications

IEN-9648-RW/9428-RW series switches are designed to meet the demands of railway applications, including rolling stock and wayside installations. The switches guarantee reliable operation in industrial environments where vibration and shock are common place. Gigabit backbone, redundant ring increase the reliability of the communications and reduce cabling and wiring costs. These are compliant with mandatory sections of EN 50155, covering operating temperature, power input voltage, surge, ESD, and vibration, as well as conformal coating and power insulation, making the switches suitable for a variety of Railway applications.





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Specifications

Standards		
IEEE 802.3	10BASE-T	
IEEE 802.3u	100BASE-TX	
IEEE 802.3ab	1000BASE-T	
IEEE 802.3z	1000BASE-SX/LX	
IEEE 802.3	Nway Auto-negotiation	
IEEE 802.3x	Flow Control	
IEEE 802.1p	Class of Service	
Interface		
Donto	8 x 10/100/1000BASE-T (RJ45)	
Ports	2 x 100FX/GbE SFP Slots	
	Power voltage drop alarm setting (PWR & RPS),	
DIP Switch	Broadcast strom control setting (STORM),	
	Port-based QoS setting (QoS on P1 & P2),	
	Fiber port speed setting (100FX on P9 & P10)	
LED Panel	PWR, RPS, ALM, SFP, 1000, LNK/ACT	
Features		
Performance	Max Jumbo Frame Size: 10KBytes	
	MAC Table Entries: 8K	
	Switch Fabric: 20Gbps	
	L2 Forwarding Rate: 14.8Mpps	
Power		
Input Voltage	12~60VDC	
	12 00120	
Connection	System: 13W	
Connection Power Consumption		
Power Consumption	System: 13W Teminal Block One relay output with current carrying capacity of	
Power Consumption Alarm Relay	System: 13W Teminal Block One relay output with current carrying capacity of 1A @ 24V DC	
Power Consumption	System: 13W Teminal Block One relay output with current carrying capacity of 1A @ 24V DC	
Power Consumption Alarm Relay Mechanical and Envi Housing	System: 13W Teminal Block One relay output with current carrying capacity of 1A @ 24V DC conment Aluminum Case (IP30 protection)	
Power Consumption Alarm Relay Mechanical and Envi	System: 13W Teminal Block One relay output with current carrying capacity of 1A @ 24V DC conment Aluminum Case (IP30 protection) DIN-Rail, Rack-mount	
Power Consumption Alarm Relay Mechanical and Envi Housing	System: 13W Teminal Block One relay output with current carrying capacity of 1A @ 24V DC onment Aluminum Case (IP30 protection) DIN-Rail, Rack-mount -40°C~75°C (-40°F~167°F)	
Power Consumption Alarm Relay Mechanical and Envi Housing Mounting Kit	System: 13W Teminal Block One relay output with current carrying capacity of 1A @ 24V DC conment Aluminum Case (IP30 protection) DIN-Rail, Rack-mount	
Power Consumption Alarm Relay Mechanical and Envi Housing Mounting Kit Operating Temperature	System: 13W Teminal Block One relay output with current carrying capacity of 1A @ 24V DC onment Aluminum Case (IP30 protection) DIN-Rail, Rack-mount -40°C~75°C (-40°F~167°F)	
Power Consumption Alarm Relay Mechanical and Envi Housing Mounting Kit Operating Temperature Storage Temperature	System: 13W Teminal Block One relay output with current carrying capacity of 1A @ 24V DC onment Aluminum Case (IP30 protection) DIN-Rail, Rack-mount -40°C~75°C (-40°F~167°F) -40°C~85°C (-40°F~185°F)	
Power Consumption Alarm Relay Mechanical and Envi Housing Mounting Kit Operating Temperature Storage Temperature Operating Humidity	System: 13W Teminal Block One relay output with current carrying capacity of 1A @ 24V DC onment Aluminum Case (IP30 protection) DIN-Rail, Rack-mount -40°C~75°C (-40°F~167°F) -40°C~85°C (-40°F~185°F) 5 to 95% RH (non-condensing)	

Certifications		
CE	ЕМІ	FCC Part 15 Subpart B Class A EN 55022: class A EN 55011: 2009 class A 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)
Shock		IEC 60068-2-27
Freefall		IEC 60068-2-32
Vibration		IEC 60068-2-6
Rail Traffic		EN 50155 EN 50121-4
Ordering Information		
IEN-9428-RW		Unmanaged 8 x 10/100/1000 RJ45 & 2 x FX/GbE SFP Industrial Switch, Railway Approval
Optional Accessories		
Power Supply		SDR-120-48: DIN-Rail, 120W, 48VDC, Industrial Power Supply with PFC Function
DIN-Ra	ail Holder	DR-160 (for GST-160)
GBM-1	104	1000BASE-SX 1.25G, Multi-mode SFP, 500m
GBM-104-2		1000BASE-SX 1.25G, Multi-mode, 3.3V, 1310nm, 2Km
GBM-104-10		1000BASE-LX 1.25G, Single mode SFP, 10Km
GBM-1	123	1000BASE-LX Bi-di Single Mode SFP Module, 10Km

Note:

- *Specifications subject to change without notice.
- *Industrial SFP with wide operating temperature from -40°C~85°C (-40°F~185°F) is available upon request.

Dimension

