VOLKTEK

Quick Installation Guide
IEN-8428P-24V

1. Overview

IEN-8428P-24V is equipped with eight 10/100/1000Base-T ports plus two 100/1000Base-SX/LX SFP slots. IEN-8428P-24V is a scalable, cost-effective and future-proof industrial grade unmanaged PoE+ switch.

IEN-8428P-24V is a full Gigabit Ethernet switch supporting IEEE 802.3at/803.3af on ports 1 to 8 i.e. it transmits both power and data transmission over single Ethernet cable for PoE appliances and devices. IEEE802.3at PoE+ support with total PoE power budget 240W when input voltage is 48VDC or 120W when input voltage is 24VDC. The switch operates in wide temperature range -40˚C~70˚C making it tough to suit for any factory condition.

2. Package Checklist

Open the package of the IEN-8428P-24V and carefully unpack it. Check the contents of the package for the following items*:

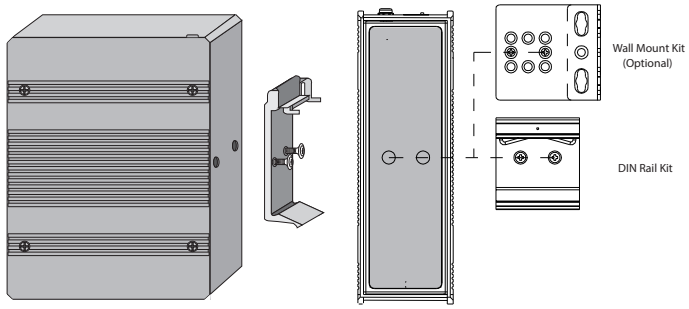
- IEN-8428P-24V Switch x 1
- DIN-Rail kit x 1
- Quick Installation Guide x 1

** Contents of the package can be adjusted based on customer demand.*

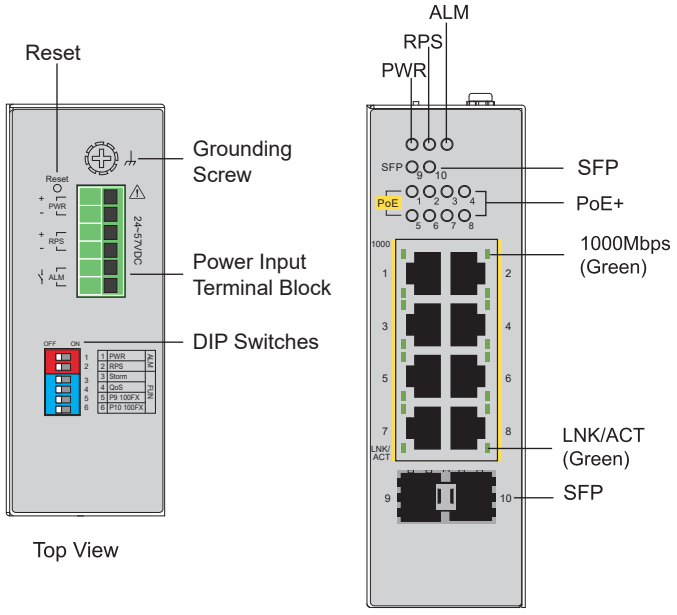
3. Hardware Installation Procedure

STEP 1:
Unpack the device and other contents of the package

STEP 2:
Attach the DIN Rail Kit as shown in picture.



STEP 3:
Connect 24~57VDC power to terminal block. (Check the polarity while connecting)



STEP 4:
Connect the Ethernet (RJ45) cable to the networking device and check the LED status to confirm the connection is established

4. Mounting and Dismounting to DIN-Rail

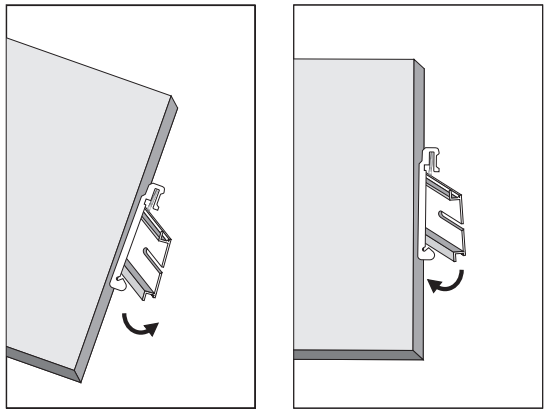
Mounting the switch

Place the IEN-8428P-24V on the DIN rail from above using the slot. Push the front of the switch toward the mounting surface until it snaps into place with a click sound.

Dismounting the switch

Press the switch from top and pull out the lower edge of the switch and then remove the switch from the DIN rail.

DIN-Rail-mounted with IEN-8428P-24V



Mounting the Switch Removing the Switch

5. Cabling RJ45

Connect one end of an Ethernet/RJ45 cable into Ethernet port of IEN-8428P-24V and other end to attached networking device.

Ports 1-8 of the switch support Fast Ethernet as well as Gigabit Ethernet (10/100/1000Base-T)

All the RJ45 ports on the IEN-8428P-24V support auto negotiation and auto MDI/MDI-X to eliminate the need for crossover cabling.

Note: Category 5e cable or above should be used.

6. Power Input

Safety first



Safety measures should be taken before connecting the power cable.Turn off the power before connecting modules or wires. The correct power supply voltage is listed on the product label. Check the voltage of your power source to make sure that you are using the correct voltage. DO NOT use a voltage greater than what is specified on the product label. Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If current exceeds the maximum rating, the wiring can overheat causing serious damage to your equipment.

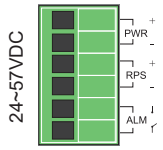
6.1. Redundant Power Input

You can use "PWR" for Primary Power input and "RPS" for Redundant Power Input.

To insert power wire and connect the +24~57V DC power to the power terminal block, follow the steps below:

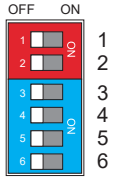
- Use flat-head screw driver to loosen the wire-clamp screws
- Insert the corresponding wires into contacts
- Tighten the wire-clamp screws to prevent the wires from loosening

Top view of Terminal Block is shown in the figure below:



Terminal Block

6.2. DIP Switch Setting & Reset Button



PWR	ON: Primary power alarm reporting is enabled
	OFF: Primary power alarm reporting is disabled
RPS	ON: Redundant power alarm reporting is enabled
	OFF: Redundant power alarm reporting is disabled
Storm	ON: Broadcast/DLF storm control is enabled
	OFF: Broadcast/DLF storm control is disabled
QoS	ON: Port-based QoS enabled on P1&P2
	OFF: 802.1p QoS enabled (default)
P9 100FX	ON: Port 9 link speed is set to 100Base-FX
	OFF: Port 9 link speed is set to 1000Base-SX/LX
P10 100FX	ON: Port 10 link speed is set to 100Base-FX
	OFF: Port 10 link speed is set to 1000Base-SX/LX

7. LED Indicators

PWR (Green)	Illuminated	Primary Power is connected
	Off	Primary Power failure or not available
RPS (Green)	Illuminated	Redundant Power is connected
	Off	Redundant Power failure or not available
ALM (Red)	Illuminated	Alarm for no Primary power or Low I/P voltage
	Off	No alarm to report or DIP function is disabled
PoE 1st~8th port (Green)	Illuminated	PoE power is delivered to powered device (PD)
	Off	PoE power feeding doesn't function
1000 (Green)	Illuminated	Link on 1000Mbps
	Off	Link on 100Mbps or 10Mbps
LNK/ACT (Green)	Illuminated	Ethernet port link-up
	Blinking	Data is transmitting / receiving
	Off	Port disconnected or link failed
SFP (Green)	Illuminated	Data is transmitting / Receiving
	Off	Port disconnected or link failed

LIMITED WARRANTY

VOLKTEK, a quality brand from VOLKTEK Corporation, warrants this product against detect in materials and workmanship for a period of FIVE (5) YEARS to the original purchaser.

If you discover a defect, VOLKTEK will, at its sole option, repair or replace the product at no charge to you, provided that you contact VOLKTEK technical support to obtain a Return Merchandise Authorization Number (RMA) and instruction on how and where repairs can be made.

This warranty does not apply if the product has been damaged by accident, abuse, misuse, misapplication, neglect, fire, water, lightning or other acts of nature, failure to follow supplied instructions, installation or removal, have been repaired or have undergone attempted repair by unauthorized personnel without written consent from VOLKTEK, modified, defaced, or has its serial numbers removed. VOLKTEK reserves the right to use remanufactured, refurbished, or used parts and components in making warranty repairs.

Certain features of third-party software or hardware designed for the host system may not be available when used with this product. Accordingly, VOLKTEK does not warrant that hardware or software will function error free when used in conjunction with this product.

This warranty is in lieu of all other warranties, whether oral or written, express or implied. All expressed or implied warranties for this product, including the implied warranties of merchantability and fitness for a particular purpose are limited in duration to the warranty period. No warranties expressed or implied will applied after this period. VOLKTEK shall not be liable for lost profits, damage to other property caused by any defects of this product, or damages based upon inconvenience, loss of product use, loss of time, commercial use, incidental and/or consequential damages for the breach of any expressed or implied warranty, including damages to property, and to the extent permitted by law, damages for personal injury, even if VOLKTEK has been advised of the responsibilities of such damages.

If you have any further questions, please contact Customer Support:

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