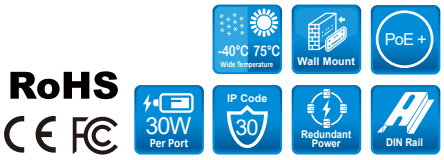
VOLKTEK

IEN-8428P

Umanaged 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch





Description

Currently thieves are targeting public places, factories and other storage facilities where a trustworthy surveillance system is much necessary which can help to protect buildings, employees, and materials with a high margin of productivity. Realizing the necessity of IP surveillance, Volktek comes up with IEN-8428P, an unmanaged rugged PoE+ switch designed for harsh surveillance network. The PoE switch exhibits extreme tolerance in harsh temperature environment ranging from -40°C to 75°C including high resistance to impacts, vibration and interference. The switch is complied with innovative Power Booster technology, which boosts power from standard DC voltage 24VDC to 50VDC without the need for an external voltage converter also saving cost and space.

Complied with PoE/PoE+ (IEEE 802.3af/at) function on 8-Gigabit copper ports, the switch eliminates the need of running separate cables for power and supplies up to 30W per port power budget for the devices such as IP surveillance cameras, wireless access points, IP phones and other PoE enabled devices. 2-slot 100FX/Gigabit give the advantages of configuring daisy chain topologies offering full-proof fiber advantages for a safe, reliable and long distance Gigabit connectivity. Although unmanaged but the switch offers a compact, rugged design for round the clock surveillance in harsh, remote and hard-to-reach locations.

Features Highlight

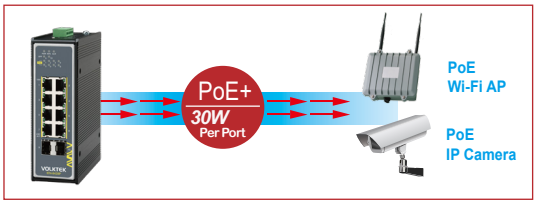
Robust Switch Performance

IEN-8428P 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.



High-Power Budget for PoE Network Devices

IEN-8428P is capable of delivering PoE power up to 30W per port (IEEE 802.3af/at) to PoE+ compliant powered devices. Addition to this, the switch allows simple “plug and play” PoE for various types of high power consuming PoE devices. Thereby, irrespective of their location, powered devices can be powered without installing additional power outlets or cabling and significantly reduce your CAPEX.



Efficient Power Booster Support

There are many places such as small factories, workstations where the voltage supply is not sufficient for PoE operation. Hence to deal with this situation, IEN-8428P is designed with innovative power booster technology which can boost DC voltage from 24VDC to 48~57VDC for demanding IP surveillance saving additional cost and space for external voltage converter.

Redundant Power Supply

Considering the power failure impact in surveillance applications, IEN-8428P is developed for redundant power to provide continuous service resulting reliable and consistent network. In addition, the switch is equipped with alarm feature to notify the occurrence of power failure, helps in quick respond and faster trouble-shooting.

Advanced QoS Support

Understanding the need of smoother data transmissions for specific surveillance applications, the IEN-8428P 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.

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Features Highlight

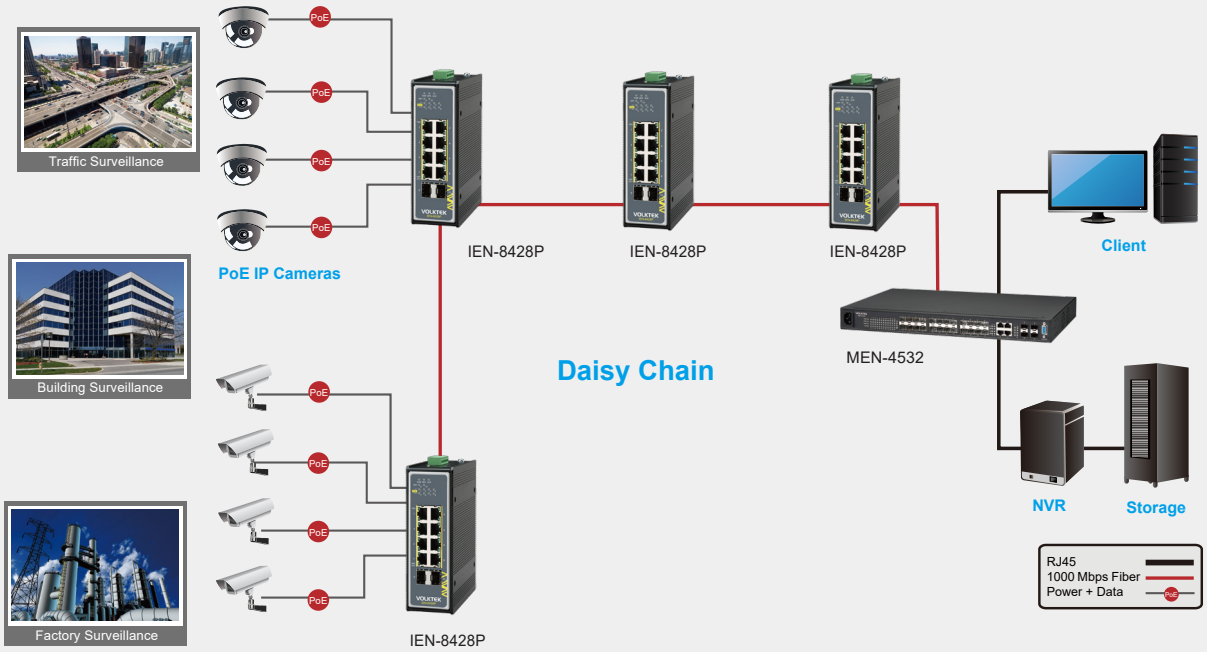
Eco-friendly Green Ethernet Design

To address the concerns of increasing power consumption, IEN-8428P 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.

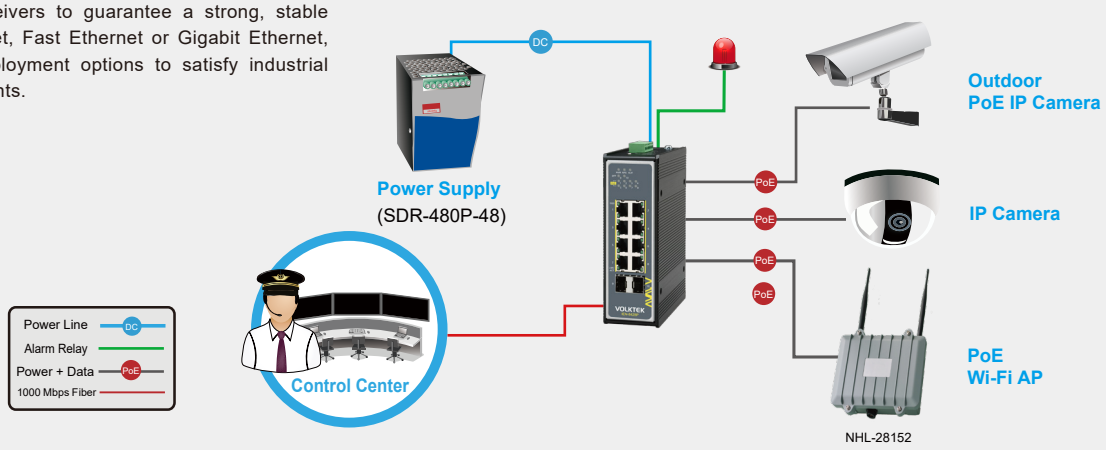
Applications

Sufficient PoE Power with Cost-saving Fiber Connectivity

The intelligent PoE+, compactable size, rugged design of IEN-8428P ensure continuous operations in some special requirements for transportation, factory and outdoor places where high vibration degree, shock and wide range temperatures are present. Addition to this the dual Gigabit SFP ports which can easily make daisy chain topologies to power more number of PoE+ enable power devices as well as saves the amount of fiber cabling connecting to the control room. Due to daisy chain architecture only a single fiber connects to the control room which in turn saves CAPEX.



The IEN-8428P is compatible with 10/100/1000Mbps through RJ45 transceivers to guarantee a strong, stable connection of Ethernet, Fast Ethernet or Gigabit Ethernet, providing flexible deployment options to satisfy industrial networking requirements.



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Specifications

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX/FX
IEEE 802.3ab	1000BASE-T
IEEE 802.3z	1000BASE-SX/LX
IEEE 802.3x	Flow Control
IEEE 802.1p	Class of Service
IEEE 802.3af	Power over Ethernet
IEEE 802.3at	Power over Ethernet Plus
IEEE 802.3az	Energy Efficient Ethernet (EEE)
Interface	
Ports	8 x 10/100/1000BASE-T PSE Ports
	2 x 100FX/Gigabit SFP Slots
DIP Switch	Power voltage drop alarm setting (PWR & RPS), 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, PoE, 1000, LNK/ACT
Features	
Performance	Jumbo frame Size: 10KBytes
	MAC Table Entries: 8K
	Switch Fabric: 20Gbps
	L2 Forwarding Rate: 14.8Mpps
Power	
Input Voltage	Primary inputs：48V~57VDC
	Redundant inputs：48V~57VDC
Power Consumption	System：10W
	PoE Power Budget：240W
Alarm Relay	One relay output, 1 A @ 24VDC

Note :

** The SFP communication distance upon the request.*

** Industrial SFP with wide operating temperature from -40°C~85°C is available upon request.*

** Specifications subject to change without notice.*

Mechanical and Environment	
Housing	Aluminum (IP30 Protection)
Mounting	DIN-Rail
Operating Temperature	-40°C~70°C
Storage Temperature	-40°C~85°C
Operating Humidity	5 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	950g
Dimension (WxHxD)	50x160x120mm (1.97x6.3x4.72inch)
Certifications	
EMI	FCC Part 15 Subpart B Class A EN55022 : 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
Ordering Information	
IEN-8428P	Unmanaged 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch, 48V
IEN-8408P	Unmanaged 8 x 10/100/1000 PoE+ Switch, 48V
Optional Accessories	
Power Supply	SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C
GBM-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m
GBM-123TS	1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10Km, 0°C~70°C / -32°F~158°F
GBM-123RS	1000BASE-LX, Bi-Di SFP TX:1550/RX:1310 Single Mode, 10Km, 0°C~70°C / -32°F~158°F

Dimension

