

# IEN-8415PL

## Lite Managed Industrial Ethernet PoE+ Switch

4-port 10/100/1000BASE-T(PSE) + 1-port 10/100/1000BASE-T + 1-slot 100FX/Gigabit SFP



**RoHS CE FC**



### Description

The IEN-8415PL is a Lite Managed Industrial PoE+ Ethernet Switch perfectly suited in harsh environments and an ideal solution for easy managed surveillance systems. The switch is designed to meet the requirements of both power and data transmission over single Ethernet cable to PoE+ appliances and devices without the need for power outlets, eliminating additional cost of electrical cabling and circuits.

The switch's case and hardened components withstand high degree of vibration, shock and wide operating temperatures from -10°C to 60°C. Switch features 5-port 10/100/1000BASE-T and 1-slot 100FX/Gigabit SFP to satisfy new and evolving network demands in longer distances via its fiber port. With 4 IEEE 802.3af/at compliant ports, each of them allows up to 30W to satisfy the growing demand of high power consuming network devices such as WLAN AP, VoIP phones and IP surveillance cameras, and other powered devices in long distances up to 100 meters with Cat5e cables or above.

In addition, the switch facilitates built-in basic software features such as Port-based priority, Loop Detection, Flow Control, Storm Control and other network management functions to deliver a rock solid, adjustable networks, to ensure impressive uptime even in the most challenging conditions.

### Features Highlight

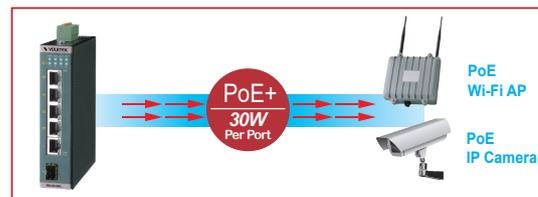
#### Robust Switch Performance

With a hardened metal case, surge and ESD protection, the IEN-8415PL provides a high level of immunity against electromagnetic interference and heavy electrical surges, thus facilitating easy deployment in demanding environments. In addition, the IEN-8415PL offers high performance switch architecture with five 10/100/1000BASE-T ports and one 100FX/Gigabit Ethernet SFP slots to meet the requirements of high-bandwidth access in wide operating temperatures.



#### High-Power Budget for PoE Network Devices

To fulfill the growing demand of high-bandwidth, high-power PoE for network applications and eliminating the cost of electrical cabling and circuits, the IEN-8415PL is designed under IEEE 802.3at standard PoE+. With 120W PoE power budget capability for whole system, the switch allows simple "plug-n-play" PoE for various types of high power consuming PoE devices. This makes the IEN-8415PL a very convenient solution for applications far away from power outlets satisfying PoE extension applications in much longer distances.



#### Intelligent PoE Alive Checking

The IEN-8415PL is designed with intelligent PoE+ features to utilize power more efficient. To monitor real-time status of PDs, the switch sends alive-checking packets to PDs. If a PD fails to respond, the switch's PD live check feature detects the failure and reactivates the PD. This reduces management burden and increases system reliability.



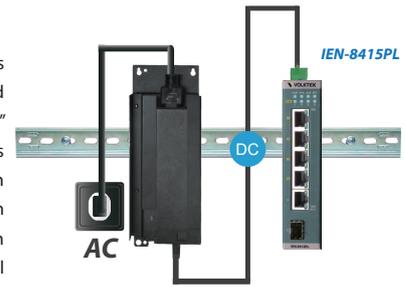
#### Simplified Installation w/ Compact Size

The IEN-8415PL provides varied choice of deployment locations even in small space, harsh environments, quick and easy installation way by its compact size. Every IEN-8415PL is equipped with auto MDI/MDI-X on all ports for simple connection to other switches and hubs. When a compliant device is attached, the power supplied will automatically detect and classify to fit the device. With diagnostic LEDs panel, the IEN-8415PL allows you to know switch status and simplify troubleshooting.

**Features Highlight**

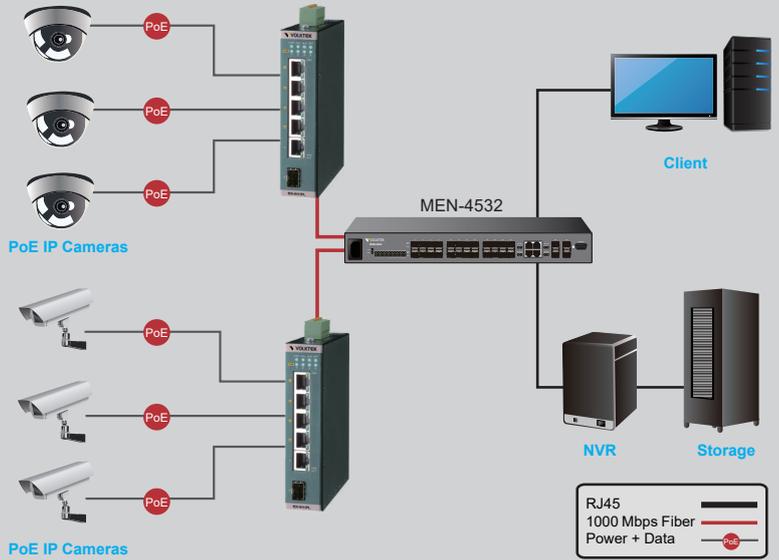
**DIN Rail to Power Adapter (AC to DC) & Terminal Block**

The IEN-8415PL is ideal solution to prevent the failure of single power circuit, in which provides you options to facilitate the 802.3at High Power PoE usage. Either "DIN-Rail Power Adapter" to convert AC to DC for board operation in an easily and firmly installation with hardened connection to the switch unit OR "Terminal Block" which supports primary (PWR) and standby (RPS) can be used to powering PoE network. Categorized by its compact design, DIN-Rail Power Adapter can easily fit in smaller infrastructures and is extremely simple in installation. Saving your time and space, this adapter can be easily mounted next to switch unit in surveillance applications that have little space available. The second optional power supply through "Terminal Block" provides a low-cost, simple solution to the problem of an inadvertent failure of the internal power-supply, which can result in the shutdown of switching device, the PoE devices attached to its ports, or an entire network.



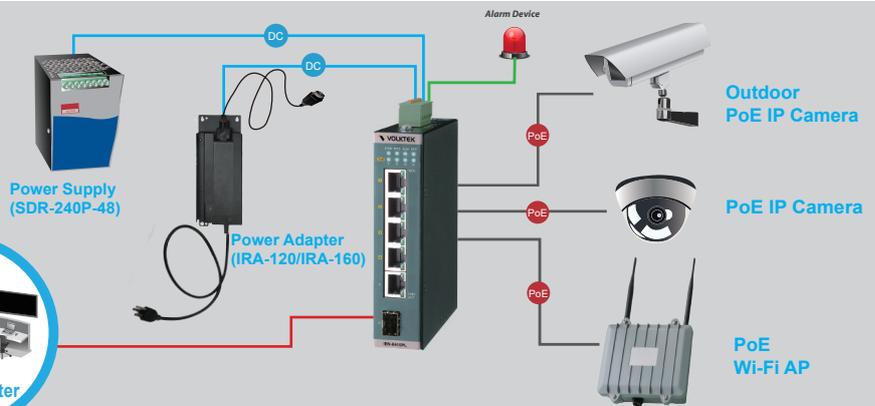
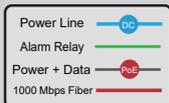
**Surveillance Applications**

The IEN-8415PL combines high-power PoE+, robust performance for surveillance systems in harsh environments. With its compact size, highly reliable and secure features ensure continuous operations in some special requirements for transportation, factory and outdoor places where high vibration degree, shock and wide range temperatures are present.



**Applications**

The IEN-8415PL is compatible with 10/100/ 1000 Mbps through RJ45 transceivers to guarantee a strong, stable of Ethernet, Fast Ethernet or Gigabit Ethernet, providing flexible deployment options to satisfy surveillance networking requirements.



**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 802.1ab	LLDP
IEEE 802.3af	PoE
IEEE 802.3at	PoE plus
IEEE 802.3az	Energy Efficient Ethernet (EEE)
Interface	
Ports	4x10/100/1000BASE-T (PoE+ RJ45) 1x10/100/1000BASE-T (RJ45) 1-Slot 100FX/Gigabit SFP
DIP Switch	Primary/Redundant Power Voltage Drop Alarm Setting
LED Panel	PWR, RPS, ALM, SFP, PoE, 1000, LNK/ACT
Features	
Performance	Max Jumbo Frame Size: 10KBytes MAC Table Entries: 8K Switch Fabric: 12Gbps L2 Forwarding Rate: 8.9Mpps
Management	Web GUI, SNMP v1/v2c, Firmware Upgradable, Configuration Backup/Restore, SNTP, LLDP, DHCP Client, Mirroring, ONVIF Discovery
Traffic Control	Port Priority, Flow Control, Storm Control, Loop Detection
PoE/PoE+	PD Alive Check
Power	
Input Voltage	Primary: 48V (48~57V DC) Redundant: 48V (48~57V DC)
Connector	4-pin Min-Din DC-Jack (Primary Power Input) 6-pin Terminal block (Primary/Redundant Power Input)
Power Consumption	System: 10W PoE Power Budget : 120W
Alarm Relay	One relay output with current carrying capacity of 1 A @ 24V DC

Mechanical and Environment	
Housing	Aluminum Case (IP30 protection)
Mounting Kit	DIN-Rail, Wall Mount (Optional)
Operating Temperature	-10°C~60°C
Storage Temperature	-40°C~85°C
Operating Humidity	10 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	TBD
Dimension (WxHxD)	31x136x109.5 mm (1.22x5.36x4.31 inch)

Standards and Certifications	
EMI	TBD
EMS	TBD
Shock	TBD
Freefall	TBD
Vibration	TBD

Ordering Information	
IEN-8415PL	Lite Managed 4-ports IEEE 802.3af/at PoE + 1x10/100/1000 + 1-slot 100FX/Gigabit SFP Ethernet Switch

Optional Accessories	
Power Supply	SDR-240-48: 240W, 48V DC, Single Output Industrial DIN Rail with PFC Function, -25°C ~ 70°C
Power Adapter	IRA-90: 90W, 52V, Industrial Grade AC Power Adapter for PoE+ Switch, -30°C ~ 70°C, Energy Efficient Level VI IRA-160: 160W, 52V, Industrial Grade AC Power Adapter for PoE+ Switch, -30°C ~ 70°C, Energy Efficient Level VI
DIN-Rail Holder	DR-090 (for IRA-90) / DR-160 (for IRA-160)
GBM-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m
GBM-104-10	1000BASE-LX 1.25G, Single mode SFP, 10Km
GBM-123TS	1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10Km 10Km, 0°C~70°C / -32°F~158°F
GBM-123RS	1000BASE-LX, Bi-Di SFP TX:1550/RX:1310 Single Mode, 10Km 10Km, 0°C~70°C / -32°F~158°F

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

**Dimension**

