VOLKTEK

IEN-8205P-24V

Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 Switch

Description

Volktek's IEN-8205P-24V is an unmanaged rugged PoE+ switch perfectly suited for harsh surveillance network. Designed with hardened components, the switch is strong enough to tolerate wide range of temperature from -10°C to 60°C without compromising the quality and reliability. The switch is complied with innovative Power Booster technology, which support power input from 24 to 57VDC without the need for an external voltage converter also saving cost and space.

Complied with PoE+ (IEEE 802.3af/at) function on 4-Gigabit copper ports, the switch eliminates the need of running separate cables for power and supplys 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. 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-8205P-24V is enclosed within IP40 metal case and can able to sustain harsh temperature ranging between -10°C~60°C. Along with this, the switch is built with various protection features such as ESD Protection, Surge Protection and Power Consumtion Protection to deliver non-stop PoE service to the Powered Devices.
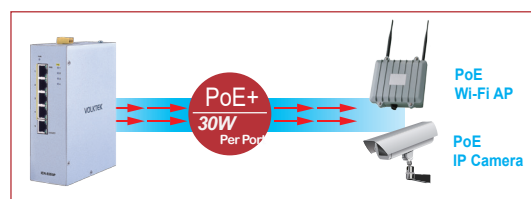
Efficient Power Booster Support

The standard PoE devices require at least 48VDC power to operate, but there are many places such as small factories, workstations where the voltage supply is less than 48VDC which is not sufficient for PoE operation. Hence to deal with this situation, IEN-8205P-24V is designed with innovative power booster technology which can support DC voltage input 24~57VDC for IP surveillance or other devices requiring such voltage inputs, saving additional cost and space for external voltage converter.

High-Power Budget for PoE Network Devices

To reduce the required time and cost of installing additional electrical sources, the INS-8648P Series implements PoE+ technology. The switch supplies power over the same cable that is used to carry network traffic and delivers a high power budget of 240W to suit various power requirements. Using SNMP and Web interface, the PoE+ functions on each port can be enabled and disabled to save power and energy.

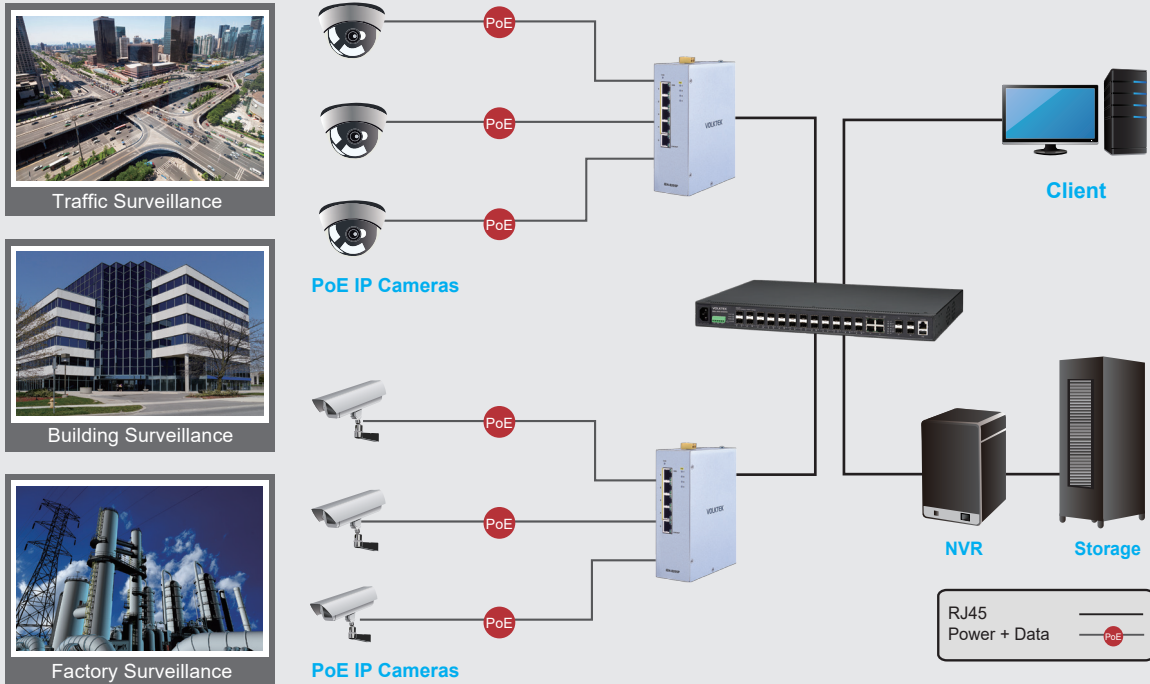### Hardened DIN-Rail-mounted Power Adapter (AC to DC)

Offering a low-cost, simply installation and easy to use solution, IEN-8205P-24V is designed with 4-pin mini-DIN power connector and adjustable DIN-Rail power holder. The adapter can easily power up the PDs and prevents from accidental power shutdown due to losing power. Those innovated designs are helping to reduce the burdens of installation and maintenance, increase the stability and availability of surveillance systems.
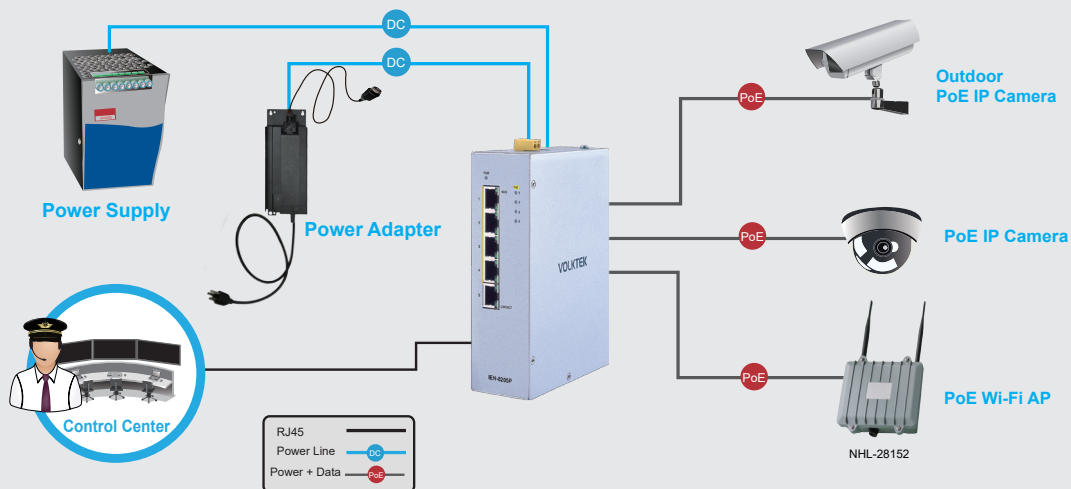
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Applications

Sufficient PoE Power with Easy Uplink to Control Room

The IEN-8205P-24V combines with 4-port high-power PoE+, robust performance for surveillance systems in harsh environments. With its 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. Addition to this the Gigabit port without PoE helps to uplink the real-time data and video to the control room without any interruption.

Traffic Surveillance

Building Surveillance

Factory Surveillance

PoE IP Cameras

PoE IP Cameras

Client

NVR

Storage

RJ45
Power + Data — PoE

Scalable Ethernet for IP Surveillance

The IEN-8205P-24V 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 harsh and much demanding surveillance requirements.

Power Supply

Power Adapter

Control Center

Outdoor
PoE IP Camera

PoE IP Camera

PoE Wi-Fi AP

NHL-28152

RJ45
Power Line — DC
Power + Data — PoE

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Specifications

Standards

IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3ab	1000BASE-T
IEEE 802.3	Nway Auto-negotiation
IEEE 802.3x	Flow Control
IEEE 802.3af	Power over Ethernet
IEEE 802.3at	Power over Ethernet Plus
IEEE 802.1p	Class of Service

Interface

Ports	4 x 10/100/1000BASE-T (PoE RJ45)
	1 x 10/100/1000BASE-T (RJ45)
LED Panel	PWR, PoE, 1000, LNK/ACT

Features

Performance	14,880 pps to 10 Mbps ports
	148,800 pps to 100 Mbps ports
	1,488,000 pps to 1000 Mbps ports
	Jumbo frame Size: 10KBytes
	MAC Table Entries: 8K
	Switch Fabric: 10Gbps
Functions	Flow Control, Storm Control, LLDP Filter, VLAN Passthru, Port Priority(p1), 802.1p/Tag QoS, EIP QoS (via TCP/UDP #), PROFINET QoS (via VLAN 0), GOOSE QoS (via Ether-type)

Power

Input Voltage	Adapter inputs: 24V~57V DC
	Terminal block inputs: 24V~57V DC
Connection	Teminal Block, Mini-DIN
Power Consumption	System: 13W
	PoE Power Budget: 120W

Mechanical and Environment

Housing	Metal Case (IP40 protection)
Mounting	DIN-Rail
Operating Temperature	-10°C~60°C (14°F~140°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Operating Humidity	5 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	750 g (1.7 lb)
Dimension (WxHxD)	50 x 160 x 120 mm (1.97 x 6.3 x 4.72 in)

Certifications

EMI	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
Safety	UL 61010-1, UL 61010-2-201

Ordering Information

IEN-8205P-24V	Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 Switch
IEN-8225P-24V	Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 2 x GbE SFP Switch

Optional Accessories

Power Supply	SDR-240-48: DIN-Rail, 240W, 48VDC, Industrial Power Supply with PFC Function
	SDR-120-48: DIN-Rail, 120W, 48VDC, Industrial Power Supply with PFC Function
Power Adapter	IRA-160: 160W, 52V, Industrial Grade AC Power Adapter
	IRA-90: 90W, 48V, Industrial Grade AC Power Adapter
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)

Note :

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

Dimension