

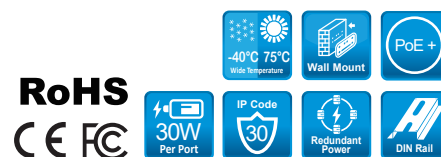
SEN-9428P-24V-SS

Unmanaged 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch, Aluminum

Description

To enforce the IP surveillance and provide sufficient power to PD devices Volktek introduces SEN-9428P-24V-SS, unmanaged PoE+ switch designed for reliable network connectivity even in substation environment. SEN-9428P-24V-SS secured with IEEE 1613 and IEC 61850-3 certificates guarantee trustworthy operation in critical environments where vibration and shock are common place. With IP30 protection it exhibits extreme tolerance in harsh temperature environment ranging from -40°C to 75°C.

Since industrial applications use 24V as their input voltage, SEN-9428P-24V-SS is built with 24V input and its Power Booster technology boosts power up to 30W per port with available 24V voltage. IEC 61850 standard prioritize the packets based on GOOSE and SMV type for mission-critical operation by default. Simple set up with no software or additional configuration needed, SEN-9428P-24V-SS proves to be a perfect solution for round the clock surveillance in hard-to-reach locations



Features Highlight

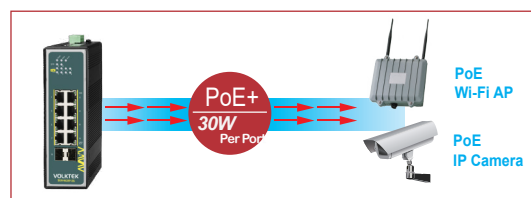
Robust Switch Performance

SEN-9428P-24V-SS 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

SEN-9428P-24V-SS 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, SEN-9428P-24V-SS 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, SEN-9428P-24V-SS 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 troubleshooting.

Advanced QoS Support

Understanding the need of smoother data transmissions for specific surveillance applications, the SEN-9428P-24V-SS 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.



Features Highlight

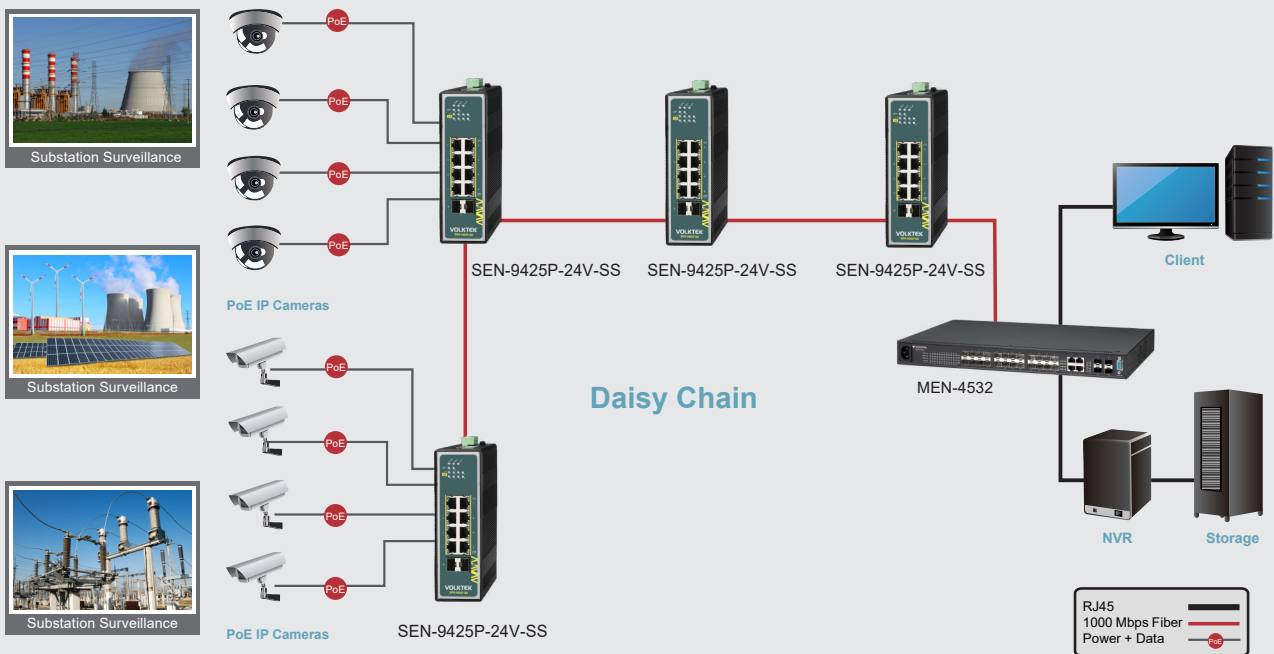
Eco-friendly Green Ethernet Design

To address the concerns of increasing power consumption, SEN-9428P-24V-SS 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.

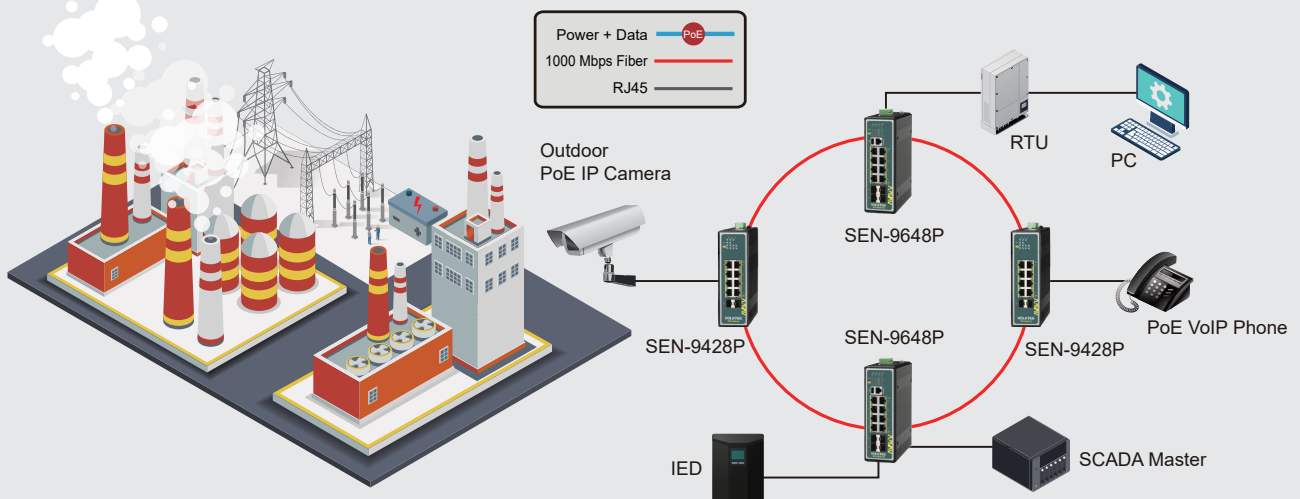
Applications

Sufficient PoE Power with Cost-saving Fiber Connectivity

The intelligent PoE+, compactable size, rugged design of SEN-9428P-24V-SS 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 SEN-9428P-24V-SS 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.



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	8x10/100/1000BASE-T (PoE+ RJ45) 2-Slot 100FX/Gigabit SFP
DIP Switch	Power voltage drop alarm setting (PWR & RPS), Broadcast storm 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	Max Jumbo Frame Size: 10KBytes MAC Table Entries: 8K Switch Fabric: 20Gbps
Power	
Input Voltage	24~57V DC
Connector	System: 10W
Power Consumption	PoE Power Budget : 240W@48V or 124W@24V
Alarm Relay	One relay output with current carrying capacity of 1 A @ 24V DC
PoE+ Functions	
PoE+ Functions	Up to 4 IEEE 802.3at powered devices Supports PoE Power up to 30W for each PoE port Auto detect powered device (PD) Remote Power Feeding up to 100m

*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 Case (IP30 protection)	
Mounting Kit	DIN-Rail, Wall Mount/Rack-mount	
Operating Temperature	-40°C~75°C	
Storage Temperature	-40°C~85°C	
Operating Humidity	5 to 95% RH (non-condensing)	
Storage Humidity	5 to 95% RH (non-condensing)	
Weight	930g	
Dimension (WxHxD)	50x160x120 mm (1.97x6.3x4.72 inch)	
LED Panel	PWR, SFP, PoE, 1000, LNK/ACT	
Standards and Certifications		
CE	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	
Power Substation	IEEE1613 IEC61850-3	
Optional Accessories		
Power Supply	SDR-240P-48: 240W, 48V DC, 240W Single Output Industrial DIN Rail with PFC Function	
Power Adapter	GST-160: 160W, 52V, Industrial Grade AC Power Adapter for PoE Switch, -30°C ~ 70°C	
DIN-Rail Holder	DR-160 (for GST-160)	
GBM-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m	
GBM-104-2	1000BASE-SX 1.25G, Multi-mode, 3.3V, 1310nm, 2Kkm	
GBM-104-10	1000BASE-LX 1.25G, Single mode SFP, 10Kkm	
GBM-123	1000BASE-LX Bi-di Single Mode SFP Module, 10Kkm	

Dimension

