

2024~2025 Volktek Product Catalog

SEN-9425P-24V-SS

Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 2 x GbE SFP Switch, Substation Approval

Description

To enforce the IP surveillance and provide sufficient power to PD devices Volktek introduces SEN-9425P-24V-SS, unmanaged PoE+ switch designed for reliable network connectivity even in substation environment. SEN-9425P-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~75°C (-40°F~167°F).

Since industrial applications use 24V as their input voltage, SEN-9425P-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-9425P-24V-SS proves to be a perfect solution for round the clock surveillance in hard-to-reach locations.

















Features Highlight

Robust Switch Performance

SEN-9425P-24V-SS is enclosed within IP30 aluminum case and can able to sustain harsh temperature ranging between -40°C~75°C. Besides, the switch is built with various protection features such as ESD Protection, Surge Protection, and Power Consumption Protection to deliver non-stop PoE service to the Powered Devices. Eventually, these features reduce the replacement cost of damaged units.

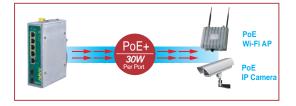


Efficient Power Booster Support

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-9425P-24V-SS is designed with innovative power booster technology which can support DC voltage input 24V~57V DC for IP surveillance saving additional cost and space for an external voltage converter.

High-Power Budget for PoE Network Devices

SEN-9425P-24V-SS is capable of delivering PoE power up to 30W per port (IEEE 802.3af/at) to PoE+ compliant powered devices (PDs). Addition to this, the switch allows simple "plug and play" PoE for various types of high power consuming PoE devices to scale up the network. Thereby, irrespective of their location, powered devices can be powered without installing additional power outlets or cabling and significantly reduce your CAPEX.



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

SEN-9425P-24V-SS is designed with 4-pin mini-DIN power connector and adjustable DIN-Rail power holder which can easily power up the PDs and prevents from accidental power shutdown due to losing power.



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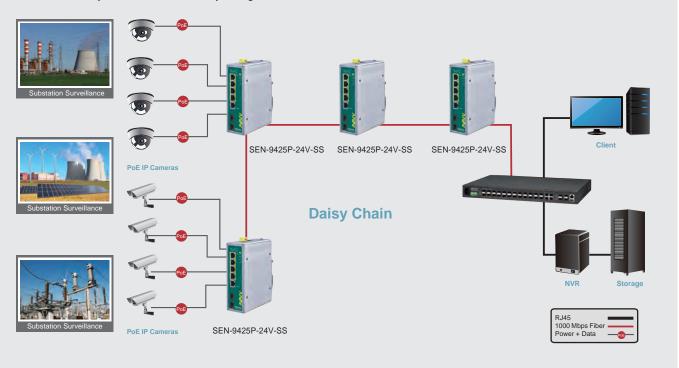




Surveillance Applications

Sufficient PoE Power with Cost-saving Fiber Connectivity

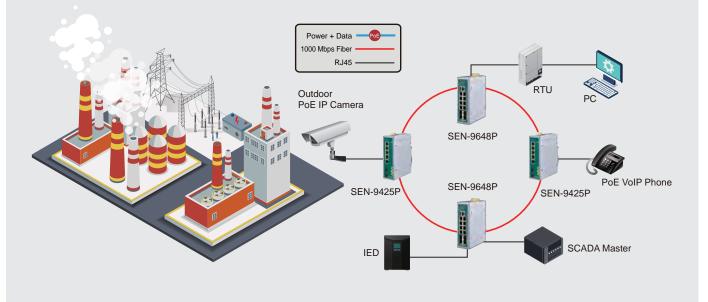
The intelligent PoE+, compactable size, rugged design of SEN-9425P-24V-SS ensure continuous operations in some special requirements for transportation, factory and outdoor places where high vibration degree, shock, and wide range temperatures are present. Addition to this the dual Gigabit SFP ports which can easily make daisy chain topologies to power more number of PoE+ enable power devices to expand the network connection and saves the amount of fiber cabling connecting to the control room as well. Due to daisy chain architecture, only a single fiber connects to the control room which in turn saves CAPEX.



Applications

Scalable Ethernet for IP Surveillance

The SEN-9425P-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 harsh and much-demanding surveillance requirements. With the innovative design of Volktek's Xpress Ring, multiple numbers of SEN-9425P-24V-SS switches are connected to expand the network with more number of PoE devices without any additional power supply. This unique design enables a reliable, and long-distance surveillance system for the IPcam surveillance including Substation-platform monitoring, and side-walk surveillance applications.



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Specifications

Standards		
IEEE 802.3	10BASE-T	
IEEE 802.3u	100BASE-TX	
IEEE 802.3ab	1000BASE-T	
IEEE 802.3z	1000BASE-1	
IEEE 802.32		
	Nway Auto-negotiation	
IEEE 802.3x	Flow Control	
IEEE 802.3af	Power over Ethernet	
IEEE 802.3at	Power over Ethernet Plus	
IEEE 802.3az	Energy Efficient Ethernet (EEE)	
IEEE 802.1p	Class of Service	
Features		
	14,880 pps to 10 Mbps ports	
Throughput	148,800 pps to 100 Mbps ports	
	1,488,000 pps to 1000 Mbps ports	
Performance	Jumbo frame Size: 10KBytes	
	MAC Table Entries: 8K	
renormance	Switch Fabric: 14Gbps	
	L2 Forwarding Rate: 14.8Mpps	
	Flow Control, Storm Control, LLDP Filter,	
	VLAN Passthru, Port Priority(p1),	
Functions	802.1p/Tag QoS, EIP QoS (via TCP/UDP #	
	PROFINET QoS (via VLAN 0),	
	GOOSE QoS (via Ether-type)	
	Up to 4 IEEE 802.3at powered devices	
	Supports PoE Power up to 30W for each	
PoE+ Functions	PoE port	
1 02+1 4110110113	Auto detect accounted device (DD)	
	Auto detect powered device (PD)	
	Auto detect powered device (PD) Remote Power Feeding up to 100m	
Power	Remote Power Feeding up to 100m	
Power Input Voltage	. , ,	
Input Voltage	Remote Power Feeding up to 100m	
Input Voltage Connection	Remote Power Feeding up to 100m 24~57VDC Terminal Block	
Input Voltage Connection Power Input Polarity Protection	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present	
Input Voltage Connection	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present System: 14W	
Input Voltage Connection Power Input Polarity Protection Power Consumption	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present	
Input Voltage Connection Power Input Polarity Protection	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present System: 14W PoE Power Budget: 120W	
Input Voltage Connection Power Input Polarity Protection Power Consumption	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present System: 14W PoE Power Budget: 120W Up to 4 IEEE 802.3at powered devices	
Input Voltage Connection Power Input Polarity Protection Power Consumption PoE+ Functions	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present System: 14W PoE Power Budget: 120W Up to 4 IEEE 802.3at powered devices Supports PoE Power up to 30W for each	
Input Voltage Connection Power Input Polarity Protection Power Consumption	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present System: 14W PoE Power Budget: 120W Up to 4 IEEE 802.3at powered devices Supports PoE Power up to 30W for each PoE port	
Input Voltage Connection Power Input Polarity Protection Power Consumption PoE+ Functions	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present System: 14W PoE Power Budget: 120W Up to 4 IEEE 802.3at powered devices Supports PoE Power up to 30W for each PoE port Auto detect powered device (PD)	
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Input Voltage Connection Power Input Polarity Protection Power Consumption PoE+ Functions PoE+ Functions Interface	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present System: 14W PoE Power Budget: 120W 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 4 x 10/100/1000BASE-T (PoE RJ45)	
Input Voltage Connection Power Input Polarity Protection Power Consumption PoE+ Functions PoE+ Functions	Remote Power Feeding up to 100m 24~57VDC Terminal Block Present System: 14W PoE Power Budget: 120W 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 4 x 10/100/1000BASE-T (PoE RJ45) 1 x 10/100/1000BASE-T (RJ45)	
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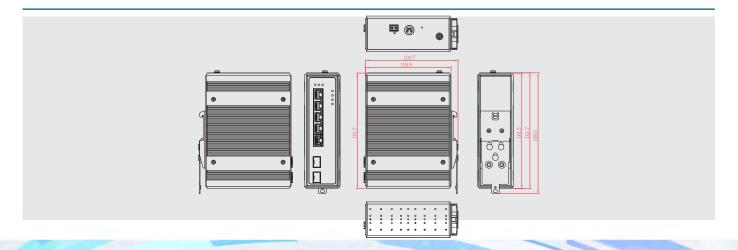
Mechanical and Environment		
Housir		Aluminum Case (IP30 protection)
Mount	ing Kit	DIN-Rail
Operat	ting Temperature	-40°C~75°C (-40°F~167°F)
Storage Temperature		-40°C~85°C (-40°F~185°F)
Operat	ting Humidity	5 to 95% RH (non-condensing)
Storag	e Humidity	5 to 95% RH (non-condensing)
Weigh	t	869 g (1.9 lb)
Dimen	sion (WxHxD)	50 x 161.5 x 119.9 mm (1.97 x 6.35 x 4.72 in)
Standards and Certifications		
		FCC Part 15 Subpart B Class A
	ЕМІ	EN 55022: class A
		EN 55011: 2009 class A
		EN 61000-6-4
CF		EN 55024
CE		EN 61000-6-2
		EN 61000-4-2 (ESD)
	EMS	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
Freefa	ll .	IEC 60068-2-32
Vibrati	on	IEC 60068-2-6
Power	Substation	IEEE1613, IEC61850-3
Safety		UL 61010-1, UL 61010-2-201
Order	ing Information	02 01010 1, 02 01010 2 201
Unmanaged 4 x 10/100/1000		Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000
SEN-9	425P-24V-SS	RJ45 & 2 x GbE SFP Switch, Substation Approval
SEN-9	428P-24V-SS	Umanaged 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP
		Switch, Substation Approval
SEN-9	648P-24V-SS	Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP
		Switch, Substation Approval
Optional Accessories		
		SDR-240-48: DIN-Rail, 240W, 48VDC,
Power Supply		Industrial Power Supply with PFC Function
1 01101	Сирріу	SDR-120-48: DIN-Rail, 240W, 48VDC,
		Industrial Power Supply with PFC Function
Dower	Adaptor	IRA-160:160W, 48V Industrial Grade AC Power Adapte
Power	Adapter	IRA-90: 90W, 48V Industrial Grade AC Power Adapter
DIN-Ra	ail Holder	DR-160 (for GST-160)
GBM-1	104	1000BASE-SX 1.25G, Multi-mode SFP, 500m
GBM-1	104-2	1000BASE-SX 1.25G, Multi-mode, 3.3V, 1310nm, 2Km
GBM-1	104-10	1000BASE-LX 1.25G, Single mode SFP, 10Km
GBM-1	123	1000BASE-LX Bi-di Single Mode SFP Module, 10Km
		1

Note:

- * Industrial SFP with wide operating temperature from -40°C-85°C (-40°F-185°F) is available upon request.
- * The highest degree of temperature operation certified by UL is -40°C~70°C (-40°F~158°F).

^{*} Specifications subject to change without notice.

Dimension



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