Surveillance Ethernet

Powering Next Generation
Surveillance Network Solutions

VOLKTEK

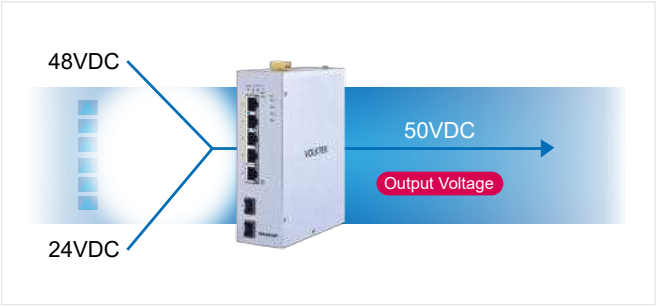
PRODUCT FEATURES & BENEFITS

Robust Switch Performance

Built with field-hardened components, Volktek Surveillance Ethernet switches can withstand harsh environments such as constant vibration, heavy shocks, humidity and extreme temperatures ranging from -40°C to 75°C. These switches provide protection against surge, ESD, reverse polarity, and short circuit to deliver non-stop PoE power to various power devices.

Efficient Power Booster Technology

The dual power input and wide voltage input range of the Volktek Switch make it ideal for factory automation applications. With a voltage input range of 24~57VDC and the ability to boost power up to 50Vdc for connected devices, the switch can support a wide range of power environments. Its advanced features ensure reliable and efficient network performance, making it an excellent choice for industrial networks that require scalability and flexibility.

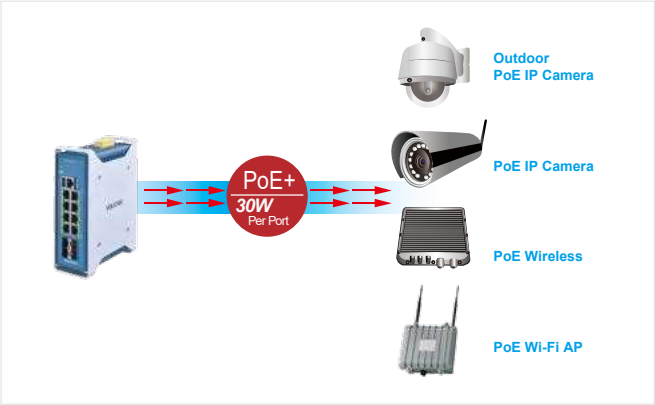


Supported IP-CAM Solutions

The Volktek PoE Switch is an advanced networking solution that supports ONVIF and can automatically discover ONVIF-aware IPcam devices, simplifying integration into surveillance applications. The switch can also add the devices to a topology map for easy visual management, with icons indicating their status in red, yellow, or green. With these advanced features, the switch provides a reliable and convenient solution for modern IP surveillance networks, ensuring scalability and efficiency.

Hardened Power Connector with User Friendly Design

The Volktek 4-Port PoE Switch is designed for modern surveillance networks, featuring a Mini-DIN connector for reliable power delivery to IP cameras and other devices. Its ability to support different power consumption levels minimizes disruptions, and the included adapter holder simplifies installation on a Din-Rail. With up to 4 PoE ports, advanced QoS capabilities, and redundant power supplies, the switch ensures optimal network performance. Ideal for industrial and rugged environments, the switch offers reliability, efficiency, and convenience for modern IP surveillance networks.

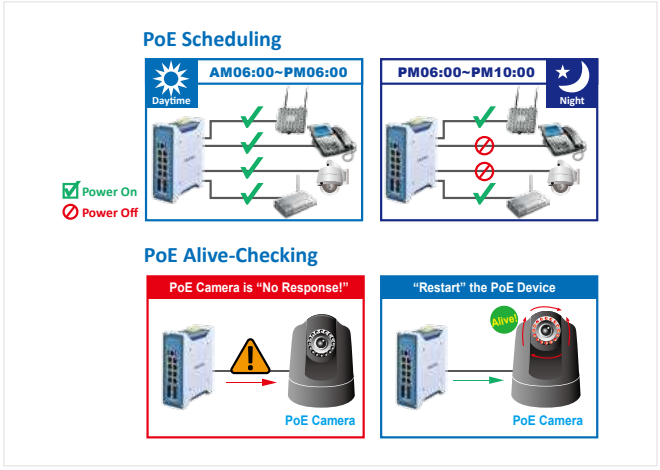


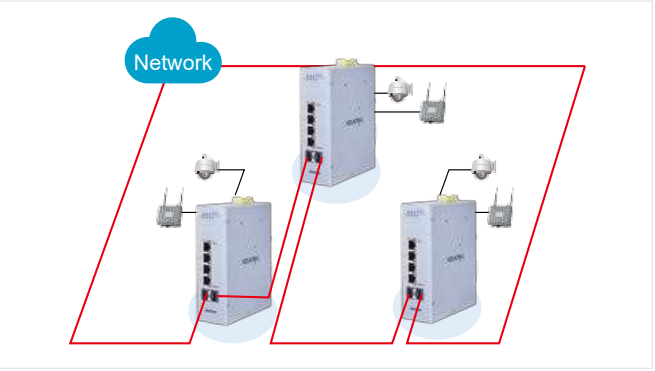
High-Power Budget for PoE Network Devices

Designed with IEEE 802.3af/at standards capable of delivering up to 30W of power per port over the existing Ethernet cable, Volktek PoE switches provide power to connected power devices without the need of an external power source. The PoE switches allow simple plug-and-play installation of various PoE devices.

Intelligent PoE+ for Powered Devices

Elevate your power management experience with Volktek Managed PoE Switches. Boasting advanced features such as PoE scheduling for energy conservation, power feeding priority for critical devices, PD alive check for device health monitoring, per-port power budget control for tailored planning, and remote power on/off capabilities, Volktek Managed PoE Switches provide unparalleled efficiency and flexibility to enhance your life quality.



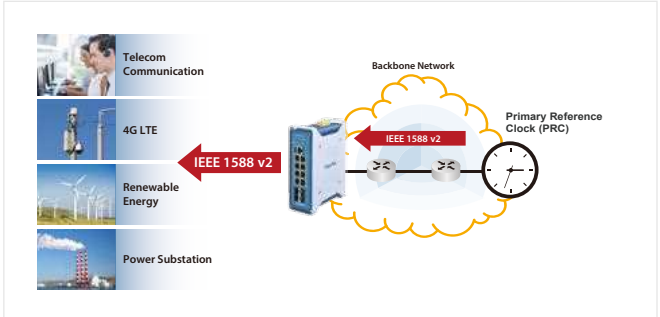


Redundant and Resilient Surveillance Network

Most Volktek PoE products are equipped with dual Gigabit SFP ports and various network redundancy protocols such as Volktek proprietary Xpress Ring, STP/RSTP/MSTP, Dual Homing, and Ethernet Ring Protection Switching (ERPS) to ensure network reliability.

IEEE 1588v2 PTP for Time Synchronization

Volktek surveillance Ethernet switches support leading-edge IEEE 1588 v2 PTP time synchronization. This function enables the establishment of a stable and organized end-to-end connection between the switch in the outdoor cabinet and the regulatory core network.



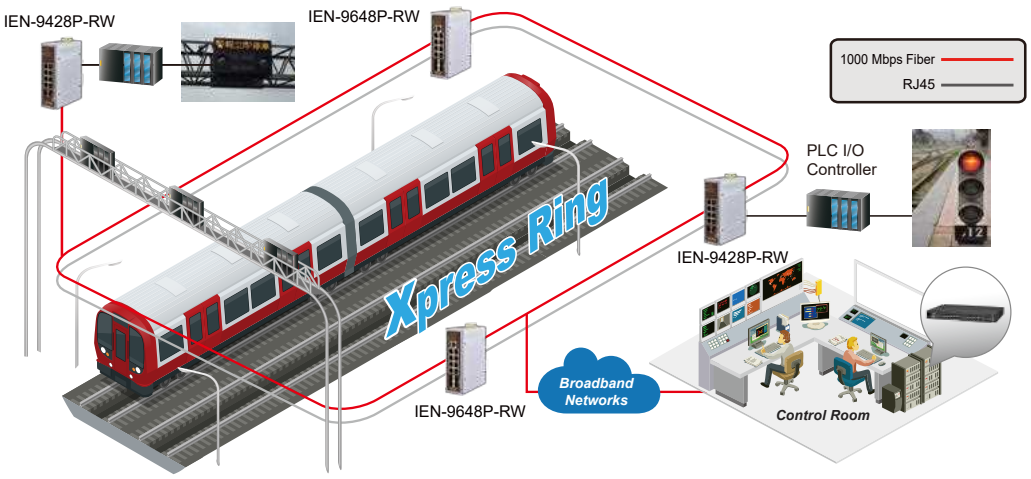
Railways Solution

Costomer's Requirements

Centralized traffic control (CTC) railway signaling consolidates train routing decisions. The system consists of a centralized train dispatcher's office that controls railroad interlocking and traffic flows. Network management involves the centralized traffic control for an optimum system with the following functions: Ethernet network design; maintenance and control the local network security; remediation of faulty equipment; maintaining appropriate quality standards in terms of network configurations and many more. To realize all these, switches must also be capable to work in these kinds of harsh conditions.

Proposed Solutions

- Xpress Ring and ERPS ring protocols recovers from the network failure in time scale of milliseconds. This ensures non-stop transmission of real-time video and data to control room.
- Volktek embedded-Element Management System 'Netlite' discovers devices automatically and allows you to view its picture and link status making debugging easy.
- Real-time link status and traffic statistics, Informative network reporting functions
- Provides auto-provisioning so that network can be managed and necessary upgrades and configurations can be done from the monitoring places.
- Hardware monitors the board temperature and alarms the manager if any abnormal temperature is observed.



Products Applied

SEN-9425P-24V-RW

- Unmanaged Railway Certified PoE+ Industrial Switch
- 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 2 x GbE SFP

SEN-9648P-24V-RW

- Managed Railway Certified PoE+ Industrial Switch
- 8 x 10/100/1000 PoE+ & 4 x GbE SFP

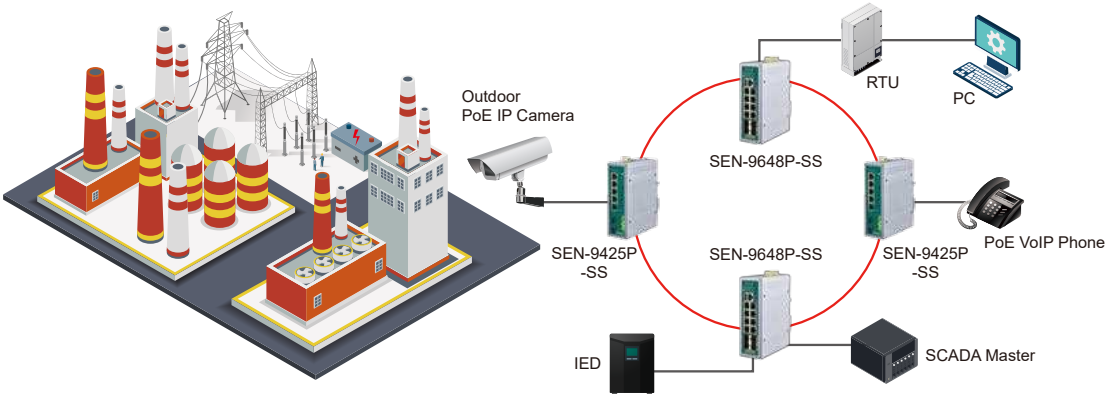
Power Substation

Costomer's Requirements

Electric utilities realize the capabilities of Ethernet communications in the substation as Ethernet moves to gigabit speed backbones. As Ethernet networks provide more benefits compared to other approaches engineers use Ethernet networks in electric power substations for an increasing number of applications, including automatic control, protection, remote maintenance, and disturbance analysis. They recognize that many of these functions are mission-critical and therefore specify redundant Ethernet networks to increase the availability.

Proposed Solutions

- Industrial grade switches provide better protection against ESD, and also certified with EMI/EMC protection. And also has overcurrent and overvoltage protection.
- Lower development and maintenance cost, since the switches are loaded with the advanced features.
- Auto-provisioning scripted files allow the user to update the firmware for the entire network instead updating by switch after the switch.
- Supports precise synchronization as per IEEE 1588v2 so that integrating all functions in now simple.
- Extensive management and filter functions plus a variety of redundancy protocols and port security.



Products Applied

SEN-9425P-24V-SS

- Unmanaged Substation Certified PoE+ Industrial Switch
- 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 2 x GbE SFP

SEN-9648P-24V-SS

- Managed Substation Certified PoE+ Industrial Switch
- 8 x 10/100/1000 PoE+ & 4 x GbE SFP

PRODUCT INTRODUCTION

Managed PoE+ Switches

HNS-8615P

L2+ Managed 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 1 x FX/GbE SFP Industrial Switch

HNS-8605P

L2+ Managed 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 Industrial Switch

9560-16GP4XS

Managed 16 x 10/100/1000 RJ45 PoE+ & 4 x 1G/10G SFP+ Industrial Switch

INS-8624P

L2+ Managed 4 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Industrial Switch

IEN-8608PA-24V

L2+ Managed 8 x 10/100/1000 PoE+ Industrial Switch, USB Support

IEN-8608PA

L2+ Managed 8 x 10/100/1000 PoE+ Industrial Switch, USB Support

IEN-8648PA-24V

L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Industrial Switch, USB Support

IEN-8648PA

L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Industrial Switch, USB Support

9005-16GP2GS

L2+ Managed 16 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Industrial Switch

9005-24GP2GS

L2+ Managed 24 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Industrial Switch

PRODUCT APPLICATION

Tunnel Application

Highway Surveillance

Unmanaged PoE+ Switches

HNS-8405P
Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 Industrial Switch

HNS-8415P
Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 1 x GbE SFP Industrial Switch

IEN-8205P-24V
Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 Industrial Switch

INS-8224P
Unmanaged 4 x 10/100/1000 PoE+ & 2 x GbE SFP Industrial Switch

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

7160-7GP1G-24V
Premium unmanaged 7 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 Industrial Switch

INS-8424P
Unmanaged 4 x 10/100/1000 PoE+ & 2 x GbE SFP Industrial Switch

UL Certified Switches

c UL us LISTED

IEN-8205P-24V
Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 Industrial Switch

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

SEN-9425P-24V-SS
Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 2 x GbE SFP Industrial Switch
SUBSTATION APPROVAL

9060-4GP2GS-360W
L2+ Managed 4 x 10/100/1000 PoE++ & 2 x GbE SFP Switch, 360Watt PoE budget
NEMA APPROVAL

SEN-9648P-24V-SS
Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Industrial Switch, USB Support
NEMA APPROVAL

Shoreline Surveillance

PoE Solution for Base Stations

PRODUCT INTRODUCTION

Substation Certified Switches

IEEE 1613
IEC 61850-3

SEN-9425P-24V-SS
Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 2 x GbE SFP Industrial Switch
SUBSTATION APPROVAL

SEN-9428P-24V-SS
Unmanaged 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Industrial Switch,
SUBSTATION APPROVAL

SEN-9648P-24V-SS
Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Industrial Switch, USB Support
SUBSTATION APPROVAL

Railway Certified Switches

EN 50155
EN 50121-4

SEN-9425P-24V-RW
Unmanaged 4 x 10/100/1000 PoE+ & 1 x 10/100/1000 RJ45 & 2 x GbE SFP Industrial Switch, **RAILWAY APPROVAL**

SEN-9428P-24V-RW
Unmanaged 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Industrial Switch,
RAILWAY APPROVAL

SEN-9648P-24V-RW
Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Industrial Switch, USB Support,
RAILWAY APPROVAL

DNV Certified Switches

TYPE APPROVED PRODUCT
DNV
DNV.COM/AF

SEN-9648PM-24V
Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Industrial Switch, USB Support,
DNV APPROVAL

NEMA TS2 Switches

NEMA TS2

9060-4GP2GS-240W
L2+ Managed 4 x 10/100/1000 PoE++ & 2 x GbE SFP Switch, 240Watt PoE budget
NEMA TS2 APPROVAL

9060-4GP2GS-360W
L2+ Managed 4 x 10/100/1000 PoE++ & 2 x GbE SFP Switch, 360Watt PoE budget
NEMA TS2 APPROVAL

SEN-9648P-24V-SS
Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Industrial Switch, USB Support
NEMA TS2 APPROVAL

PRODUCT APPLICATION

Railway Surveillance

Substation Surveillance

Managed PoE+ Switches

Model		HNS-8605P	HNS-8615P	9060-4GP2GS	9560-16GP4XS	INS-8624P	IEN-8608PA-24V
Interface	RJ45	1 x 10/100/1000	1 x 10/100/1000	-	-	-	-
	PoE	4 x 10/100/1000 PoE	4 x 10/100/1000	4 x 10/100/1000	16 x 10/100/1000	4 x 10/100/1000	8 x 10/100/1000
	SFP	-	1 x FX/GbE	2 x GbE	4 x 1G/10G SFP+	2 x FX/GbE	-
	Console	-	-	1	1	-	1
	USB	-	-	Y	Y	-	Y
Hardware	Jumbo Frame (Bytes)	10K	10K	10K	12K	10K	10K
	MAC Entries	8K	8K	16K	16K	8K	16K
	Automatic MDI/MDI-X	Y	Y	Y	-	Y	Y
	Switching Fabric	10Gbps	12Gbps	12Gbps	112Gbps	12Gbps	16Gbps
	Flow Control	Y	Y	Y	Y	Y	Y
	Surge Protection	Y	Y	Y	Y	Y	Y
	ESD Protection	Y	Y	Y	Y	Y	Y
	Reverse Polarity Protection	Y	Y	Y	Y	Y	Y
	Over Current Protection	Y	Y	Y	Y	Y	Y
Power	DC Power Input	48 ~ 57VDC	48 ~ 57VDC	48 ~ 57VDC	48 ~ 57VDC	48 ~ 57VDC	24 ~ 57VDC
	Redundant Power	Y	Y	Y	Y	Y	Y
	Alam Contact	Y	Y	Y	Y	Y	Y
	Power Isolation	Y	Y	Y	Y	Y	Y
	System Power Consumption	10W	10W	20W	22W	10W	15W
	PoE Power Budget	120W	120W	240W-I: 240 Watt 360W-I: 360 Watt	240W	120W	240W/48V 120W/24V
Industrial Standards & Certifications	FCC Part 15, CE	Y	Y	Y	Y	Y	Y
	Shock Test	Y	Y	Y	Y	Y	Y
	Freefall Test	Y	Y	Y	Y	Y	Y
	Vibration Test	Y	Y	Y	Y	Y	Y
Installation & operation information	Dimensions (WxHxD)	31 x 136.3 x 105 mm	31 x 136.3 x 105 mm	50 x 161.5 x 119.9 mm	100 x 160 x 140 mm	57.3 x 175 x 126.4 mm	57.3 x 175 x 126.4 mm
	Weight	500g	515g	970g	1,295g	795g	955g
	Housing	Metal, IP40	Metal, IP40	Aluminum, IP30	Aluminum, IP30	Aluminum, IP40	Aluminum, IP40
	Mounting Kit	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
	Operating Temperature	-10°C ~ 60°C (14°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)	-40°C ~ 75°C (-40°F ~ 167°F)	-40˚C ~ 70˚C (-40°F ~ 158°F)	-40°C ~ 75°C (-40°F ~ 167°F)	-40°C ~ 75°C (-40°F ~ 167°F)

Managed PoE+ Switches

Model		IEN-8608PA	IEN-8648PA-24V	IEN-8648PA	9005-16GP2GS	9005-24GP2GS
Interface	PoE	8 x 10/100/1000	8 x 10/100/1000	8 x 10/100/1000	16 x 10/100/1000	24 x 10/100/1000
	SFP	-	4 x GbE	4 x GbE	2 x FX/GbE	2 x FX/GbE
	Console	1	1	1	1	1
	USB	Y	Y	Y	-	-
Hardware	Jumbo Frame (Bytes)	10K	10K	10K	10K	10K
	MAC Entries	16K	16K	16K	8K	8K
	Automatic MDI/MDI-X	Y	Y	Y	Y	Y
	Switching Fabric	16Gbps	24Gbps	24Gbps	36Gbps	52Gbps
	Flow Control	Y	Y	Y	Y	Y
	Surge Protection	Y	Y	Y	Y	Y
	ESD Protection	Y	Y	Y	Y	Y
	Reverse Polarity Protection	Y	Y	Y	Y	Y
	Over Current Protection	Y	Y	Y	Y	Y
Power	DC Power Input	48 ~ 57VDC	24 ~ 57VDC	48 ~ 57VDC	48 ~ 57VDC / 100 ~ 240VAC	48 ~ 57VDC / 100 ~ 240VAC
	Redundant Power	Y	Y	Y	Y	Y
	Alam Contact	Y	Y	Y	Y	Y
	Power Isolation	-	Y	-	Y	Y
	System Power Consumption	15W	18W	18W	20W	20W
	PoE Power Budget	240W	240W/48V 120W/24V	240W	330W / AC / 50°C 260W / AC / 60°C 480W / DC / 75°C	330W / AC / 50°C 260W / AC / 60°C 685W / DC / 75°C
Industrial Standards & Certifications	FCC Part 15, CE	Y	Y	Y	Y	Y
	Shock Test	Y	Y	Y	Y	Y
	Freefall Test	Y	Y	Y	Y	Y
	Vibration Test	Y	Y	Y	Y	Y
Installation & operation information	Dimensions (WxHxD)	57.3 x 175 x 126.4 mm	57.3 x 175 x 126.4 mm	57.3 x 175 x 126.4 mm	40 x 44 x 284 mm	40 x 44 x 284 mm
	Weight	955g	1,005g	1,005g	4kg	4kg
	Housing	Aluminum, IP40	Aluminum, IP40	Aluminum, IP40	Metal, IP30	Metal, IP30
	Mounting Kit	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
	Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)	-40°C ~ 75°C (-40°F ~ 167°F)	-40°C ~ 75°C (-40°F ~ 167°F)	DC version: -40°C ~ 75°C (-40°F ~ 167°F) AC version: -10ºC ~ 60ºC (14°F ~ 140°F)	DC version: -40°C ~ 75°C (-40°F ~ 167°F) AC version: -10ºC ~ 60ºC (14°F ~ 140°F)

Unmanaged PoE+ Switches

Model		HNS-8405P	HNS-8415P	IEN-8205P-24V	INS-8224P
Interface	RJ45	1 x 10/100/1000	1 x 10/100/1000	1 x 10/100/1000	-
	PoE	4 x 10/100/1000	4 x 10/100/1000	4 x 10/100/1000	4 x 10/100/1000
	SFP	-	1 x GbE	-	2 x GbE
Hardware	Jumbo Frame (Bytes)	10K	10K	10K	10K
	MAC Entries	8K	8K	8K	8K
	Automatic MDI/MDI-X	Y	Y	Y	Y
	Switching Fabric	10Gbps	12Gbps	10Gbps	12Gbps
	Flow Control	Y	Y	Y	Y
	Surge Protection	Y	Y	Y	Y
	ESD Protection	Y	Y	Y	Y
	Reverse Polarity Protection	Y	Y	Y	Y
	Over Current Protection	Y	Y	Y	Y
Power	DC Power Input	48 ~ 57VDC	48 ~ 57VDC	24 ~ 57VDC	48 ~ 57VDC
	Redundant Power	Y	Y	Y	Y
	Alam Contact	Y	Y	-	Y
	Power Isolation	Y	Y	Y	Y
	System Power Consumption	9W	10W	14W	10W
	PoE Power Budget	120W	120W	120W	120W/48V
Industrial Standards & Certifications	FCC Part 15, CE	Y	Y	Y	Y
	Shock Test	Y	Y	Y	Y
	Freefall Test	Y	Y	Y	Y
	Vibration Test	Y	Y	Y	Y
Installation & operation information	Dimensions (WxHxD)	31 x 136.3 x 105 mm	31 x 136.3 x 105 mm	50 x 160 x 120 mm	50 x 160 x 120 mm
	Weight	500g	515g	750g	696g
	Housing	Metal, IP40	Metal, IP40	Metal, IP40	Metal, IP40
	Mounting Kit	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
	Operating Temperature	-10°C ~ 60°C (14°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)	-10ºC ~ 60ºC (14°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)

Unmanaged PoE+ Switches

Model		IEN-8225P-24V	7160-7GP1G-24V	INS-8424P
Interface	RJ45	1 x 10/100/1000	1 x 10/100/1000	-
	PoE	4 x 10/100/1000	7 x 10/100/1000	4 x 10/100/1000
	SFP	2 x GbE	-	2 x GbE
Hardware	Jumbo Frame (Bytes)	10K	9K	10K
	MAC Entries	8K	4K	8K
	Automatic MDI/MDI-X	Y	Y	Y
	Switching Fabric	14Gbps	14Gbps	12Gbps
	Flow Control	Y	Y	Y
	Surge Protection	Y	Y	Y
	ESD Protection	Y	Y	Y
	Reverse Polarity Protection	Y	Y	Y
	Over Current Protection	Y	Y	Y
Power	DC Power Input	24 ~ 57VDC	24 ~ 57VDC	48 ~ 57VDC
	Redundant Power	Y	Y	Y
	Alam Contact	-	Y	Y
	Power Isolation	Y	Y	Y
	System Power Consumption	14W	17W	10W
	PoE Power Budget	120W	210W/48V, 120W/24V	120W
Industrial Standards & Certifications	FCC Part 15, CE	Y	Y	Y
	Shock Test	Y	Y	Y
	Freefall Test	Y	Y	Y
	Vibration Test	Y	Y	Y
Installation & operation information	Dimensions (WxHxD)	50 x 160 x 120 mm	50 x 160 x 120 mm	57.3 x 175 x 126.4 mm
	Weight	780g	1,033g	795g
	Housing	Metal, IP40	Metal, IP40	Aluminum, IP40
	Mounting Kit	DIN-Rail	DIN-Rail	DIN-Rail
	Operating Temperature	-10ºC ~ 60ºC (14°F ~ 140°F)	-10°C~60°C (14°F~140°F)	-40ºC ~ 70ºC (-40°F ~ 158°F)

Certified PoE+ Switches

		Unmanaged			
Model		SEN-9425P-24V-SS	SEN-9425P-24V-RW	SEN-9428P-24V-SS	SEN-9428P-24V-RW
Interface	RJ45	1 x 10/100/1000	1 x 10/100/1000	-	-
	PoE	4 x 10/100/1000	4 x 10/100/1000	8 x 10/100/1000	8 x 10/100/1000
	SFP	2 x GbE	2 x GbE	2 x GbE	2 x GbE
	Console	-	-	-	-
	USB	-	-	-	-
Hardware	Jumbo Frame (Bytes)	10K	10K	10K	10K
	MAC Entries	8K	8K	8K	8K
	Automatic MDI/MDI-X	Y	Y	Y	Y
	Switching Fabric	14Gbps	14Gbps	20Gbps	20Gbps
	Flow Control	Y	Y	Y	Y
	Surge Protection	Y	Y	Y	Y
	ESD Protection	Y	Y	Y	Y
	Reverse Polarity Protection	Y	Y	Y	Y
	Over Current Protection	Y	Y	Y	Y
Power	DC Power Input	24 ~ 57VDC	24 ~ 57VDC	24 ~ 57VDC	24 ~ 57VDC
	Redundant Power	Y	Y	Y	Y
	Alam Contact	-	-	Y	Y
	Power Isolation	Y	Y	Y	Y
	System Power Consumption	14W	14W	13W	13W
	PoE Power Budget	120W	120W	240W/48V, 120W/24V	240W/48V, 120W/24V
Industrial Standards & Certifications	FCC Part 15, CE	Y	Y	Y	Y
	Shock Test	Y	Y	Y	Y
	Freefall Test	Y	Y	Y	Y
	Vibration Test	Y	Y	Y	Y
Installation & operation information	Dimensions (WxHxD)	50 x 161.5 x 119.9 mm	50 x 161.5 x 119.9 mm	50 x 161.5 x 119.9 mm	50 x 161.5 x 119.9 mm
	Weight	869g	869g	930g	930g
	Housing	Aluminum, IP30	Aluminum, IP30	Aluminum, IP30	Aluminum, IP30
	Mounting Kit	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
	Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)			
Certification	Approval	UL, IEEE 1613, IEC 61850-3	EN 50155, EN 50121-4	IEEE 1613, IEC 61850-3	EN 50155, EN 50121-4

Certified PoE+ Switches

		Managed		
Model		SEN-9648P-24V-SS	SEN-9648P-24V-RW	SEN-9648PM-24V
Interface	RJ45	-	-	-
	PoE	8 x 10/100/1000	8 x 10/100/1000	8 x 10/100/1000
	SFP	4 x GbE	4 x GbE	4 x GbE
	Console	1	1	1
	USB	Y	Y	Y
Hardware	Jumbo Frame (Bytes)	10K	10K	10K
	MAC Entries	16K	16K	16K
	Automatic MDI/MDI-X	Y	Y	Y
	Switching Fabric	24Gbps	24Gbps	24Gbps
	Flow Control	Y	Y	Y
	Surge Protection	Y	Y	Y
	ESD Protection	Y	Y	Y
	Reverse Polarity Protection	Y	Y	Y
	Over Current Protection	Y	Y	Y
Power	DC Power Input	24 ~ 57VDC	24 ~ 57VDC	24 ~ 57VDC
	Redundant Power	Y	Y	Y
	Alam Contact	Y	Y	Y
	Power Isolation	Y	Y	Y
	System Power Consumption	18W	18W	18W
	PoE Power Budget	240W/48V, 120W/24V	240W/48V, 120W/24V	240W/48V, 120W/24V
Industrial Standards & Certifications	FCC Part 15, CE	Y	Y	Y
	Shock Test	Y	Y	Y
	Freefall Test	Y	Y	Y
	Vibration Test	Y	Y	Y
Installation & operation information	Dimensions (WxHxD)	50 x 161.5 x 119.9 mm	50 x 161.5 x 119.9 mm	50 x 161.5 x 119.9 mm
	Weight	955g	955g	955g
	Housing	Aluminum, IP30	Aluminum, IP30	Aluminum, IP30
	Mounting Kit	DIN-Rail	DIN-Rail	DIN-Rail
	Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)		
Certification	Approval	UL, IEEE 1613, IEC 61850-3, NEMA	EN 50155, EN 50121-4	DNV

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