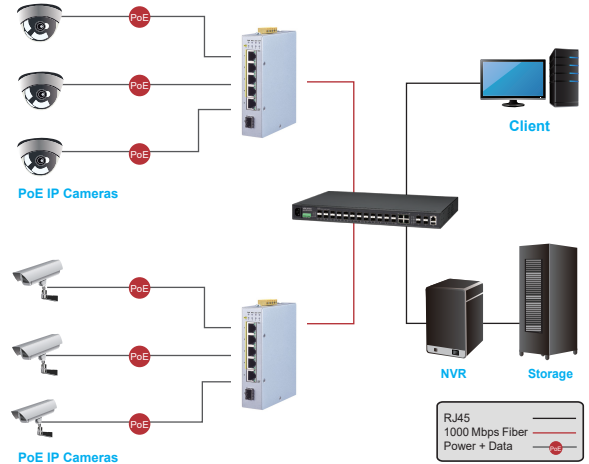


# SG-8415P

## 6-port Full Gigabit Managed Industrial PoE Switch



### Overview

The SG-8415P is a Unmanaged outdoor Hardened PoE+ Ethernet Switch perfectly suited in harsh environments and an ideal solution to deploy in 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 rugged case and hardened components withstand high degree of vibration, shock and wide operating temperatures from -40°C to 75°C. Switch features 5 10/100/1000BASE-T ports and 1 Gigabit SFP slot to satisfy new and evolving network demands in longer distances via its fiber port. With 4 IEEE 802.3at compliant ports, each of them allows to supply up to 30W in controllable ways 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 CAT 5E cables or above. This switch also support Link Fault Signaling (LFS) feature.

### Features

#### Description

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

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

To reduce the required time and cost of installing additional electrical sources, the SG-8415P 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 120W 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.

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

The SG-8415P 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) 48VDC and standby (RPS) 48VDC 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.

#### Simplified Installation w/ Compact Size

The SG-8415P provides varied choice of deployment locations even in small space, harsh environments, quick and easy installation way by its compact size and no configuration required. Every SG-8415P 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 SG-8415P allows you to know switch status and simplify troubleshooting.

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## 6-port Full Gigabit Managed Industrial PoE Switch

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3ab	1000BASE-T
IEEE 802.3z	1000BASE-SX/LX
IEEE 802.3az	Energy Efficient Ethernet
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) 1 x GbE Base-X SFP Slot
DIP Switch	Primary/Redundant Power Voltage Drop Alarm setting
LED Panel	PWR, RPS, ALM, SFP, PoE, 1000, LNK/ACT
Features	
Performance	Jumbo frame Size: 10KBytes MAC Table Entries: 8K Switch Fabric: 12Gbps Forwarding rate: 8.93 Mpps Packet buffer size: 4.1 Mbit MTBF: 435,903 hours
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
Power	
Input Voltage	Primary inputs: 48V~57V DC Redundant inputs: 48V~57V DC
Connection	Terminal Block, Mini-DIN 4-pin DC-Jack (Primary Power Input) 6-pin Terminal block (Primary/Redundant Power Input)
Power Consumption	System: 10W PoE Power Budget: 90W (Typ.) 120W (Max)
Alarm Relay	One relay output: 1A @ 24V DC

Mechanical and Environment	
Housing	Aluminum Case (IP40 protection)
Mounting	30mm DIN-Rail
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	515 g (1.14 lb)
Dimension (WxHxD)	31 x 136.3 x 105 mm (1.22 x 5.37 x 4.13 in)
Certifications	
EMI	FCC Part 15 Subpart B Class A EN 55011 class A EN 55032 class A EN 61000-6-4 ICES-003, ISSUE 7
EMS	EN 61000-6-2 EN 55035 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
Accessories	
Power Supply	90W, 48V, Industrial Grade Power Adapter -30°C~60°C (-22°F~140°F) for 110V AC input / -30°C~70°C (-22°F~158°F) for 220V AC input

### Dimension

