NETWORKING

LINK AMERICAN CABLING

PS-1080

INDUSTRIAL PoE SWITCH
4-Port INDUSTRIAL GIGABIT PoE SWITCH

Scope of Application

The PS-1080 Industrial switch is a Power Sourcing Equipment (PSE) device specially engineered with field-Industrial components to meet the high reliability requirements of Outdoor PoE applications, and also working on OSI Layer 2. Built in a well-protected IP-30 aluminum housing, the switch withstands operating temperatures ranging from -40°C to 75°C and operates consistently even in harsh industrial environments. Although unmanaged, the switch supports Auto MDI/MDIX and eco-friendly IEEE802.3az EEE (Energy Efficient Ethernet) to ensure an efcient industrial network while delivering all the benets of PoE power.

PoE+ function on 4-Port 10/100/1000Base-T of the PS-1080 complies with IEEE802.3af/at standards and allows them to supply up to 30W per port for network attached powered devices such as WLAN Access Points, VoIP phones and IP surveillance cameras. Two ports gigabit SFP of the switch can be configured under daisy chain topologies offering fiber advantages of safe, reliable and long distance gigabit connectivity required for today's surveillance systems.
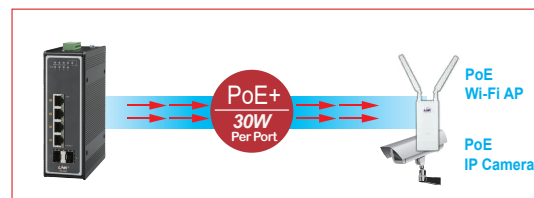
Features Highlight

Robust Performance

Well-protected in a IP30 aluminum housing, the switch provides high level of immunity against electromagnetic and radio frequency interferences found in industrial environments. Along with it, the PS-1080 is built with various protection features such as ESD Protection, Surge Protection, Over Voltage/Current protection, Reverse Polarity Protection and Short Circuit Protection to ensure continuous operation of mission-critical applications even in unstable power conditions.

High-Power Budget for PoE Network Devices

The PS-1080 is capable of delivering power up to 30W per port to both IEEE802.3af PoE and IEEE802.3at PoE+ compliant powered devices. Thereby, powered devices located in both indoor and remote outdoor locations can be powered without installing additional power outlets or cabling and signi cantly reduce your CAPEX.

Future-proof Fiber Connectivity with Dual SFP Ports

With two ports gigabit SFP, the PS-1080 easily establishes ber channel for gigabit Ethernet connectivity and allows you to take advantage of ber BASEd daisy chain topologies. The switch provides long distance, high-speed ber connectivity while offering enhanced noise immunity and data security across deployed systems. The PS-1080 is a well-suited robust, cost-effective and future-proof solution for ber BASE surveillance networks.

Features Highlight

AC Power Adapter (AC to DC) & 6-pin Terminal Block

The PS-1080 is an ideal solution to prevent the failure of single power circuit, in which provides you power redundant options to facilitate the high power PoE+ usage. Either "AC Power Adapter" to convert AC to DC for board operation in an easy and firm installation with hardened connection or "6-pin Terminal Block" which supports primary and secondary power input. Categorized by its compact design, AC Power Adapter can easily fit in smaller infrastructures and is extremely simple to install. Saving you time and space, this adapter can be easily installed next to PS-1080 in surveillance applications that have little space available.
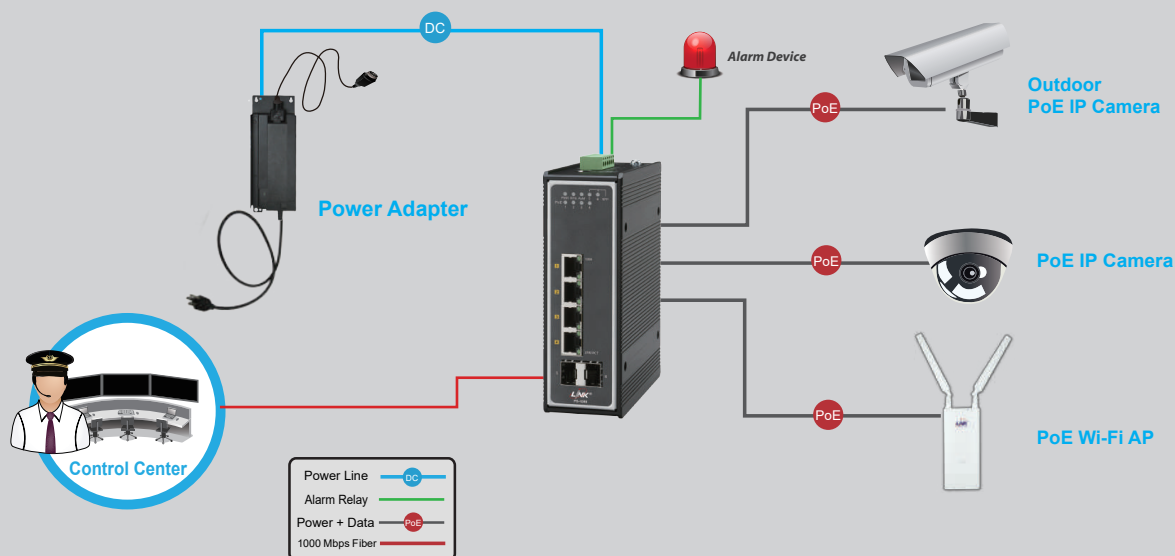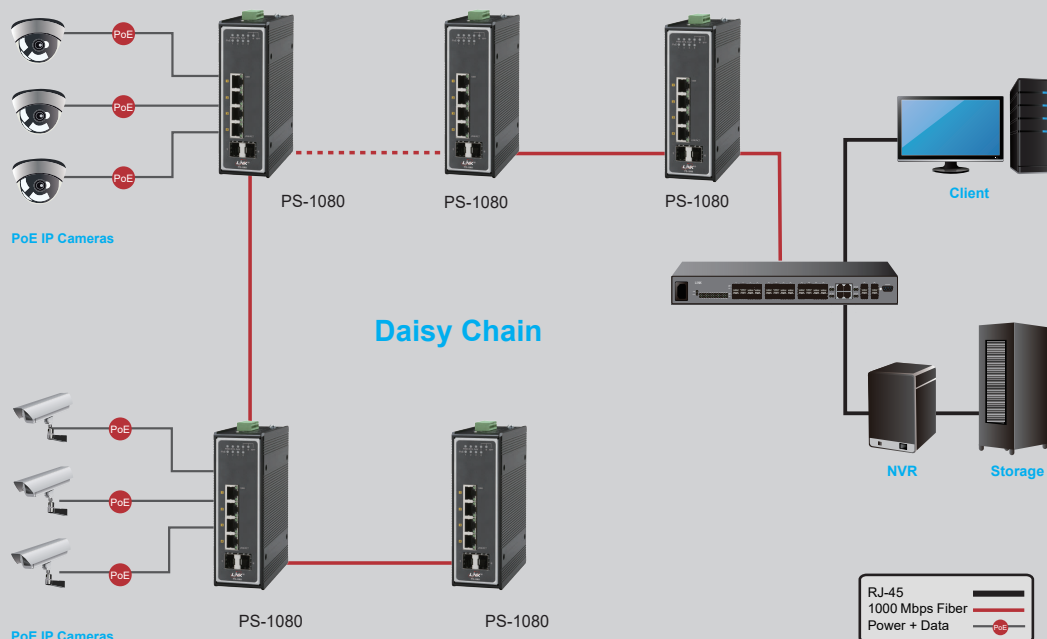

Easy Plug-and-play Operation

The PS-1080 is an easy-to-setup and ready-to-use solution for industrial and outdoor networks. Featuring Auto-MDI/MDIX and Auto-negotiation (automatically detect for half duplex and full duplex) on all ports, the PS-1080 automatically detects and congures the best mode of operation over a link. This eliminates the need of user setup or conguration procedure and simplies installation. The LEDs on the switch allow you to easily monitor device power/link status. In addition, the PS-1080 is designed for DIN-Rail to simplify network deployment in surveillance systems.

Applications

The PS-1080 combines high-power PoE+, robust performance for surveillance systems in harsh industrial environments. With its small size, highly reliable and secure features ensure continuous operations in some special requirements for transportation, factory and outdoor places where wide range temperatures are present.

Technical Data

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3ab	1000Base-T
IEEE 802.3z	1000Base-SX/LX
IEEE 802.3x	Flow Control
IEEE 802.3af	PoE
IEEE 802.3at	PoE+
IEEE 802.3az	Energy Efficient Ethernet

Interface	
Ports	4 x 10/100/1000Base-T, RJ45 port with PoE/PoE+
	2 x 1000Base-X, SFP port
DIP Switch	ALM: PWR, RPS
LED Panel	PWR, RPS, ALM, SFP, PoE, 1000, LNK/ACT

Performance	
Switching Capacity	12Gbps
Forwarding Rate	8.93Mpps
Packet Buffer Size	4.1Mbit
MAC Table Size	8K
Jumbo Frame Size	10KBytes
BER	<1E-12

Features	
PoE+	Up to 4 ports IEEE 802.3af/at powered devices
	PoE Power up to 30W for each PoE port
	Auto detect powered devices (PDs)
	Remote Power Feeding up to 100m

Power	
Input Voltage	Primary: 48V to 57V DC
	Redundant: 48V to 57V DC
Power Connection	4-pin DC-Jack (48V DC)(Primary Power Input)
	6-pin Terminal block (Primary/Redundant Input)
Input Polarity Protection	Present
Voltage Drop Alarm	Primary/Redundant Power Input
Alarm Relay	One relay output with current carrying capacity of 1A @ 24V DC
Power Consumption	System: 10W
	PoE Power Budget: 90W
ESD Protection	8KV, 15KV (contact/air)
Surge Protection	6KV

Mechanical and Environment	
Housing	Aluminum (IP30 Protection)
Mounting	DIN-Rail
Operating Temperature	-40°C to 75°C
Storage Temperature	-40°C to 85°C
Operating Humidity	10% to 95% RH (non-condensing)
Storage Humidity	5% to 95% RH (non-condensing)
Weight	730g
Dimension (WxHxD)	50 x 160 x 120 mm

Certications		
Safety		UL/IEC/EN 60950
FCC		Part 15 Subpart B Class A
CE	EMI	EN 55011
		EN 55022
		EN 61000-6-4
	EMS	EN 55024
		EN 61000-6-2
		IEC/EN 61000-4-2 (ESD)
		IEC/EN 61000-4-3 (RS)
		IEC/EN 61000-4-4 (Burst)
		IEC/EN 61000-4-5 (Surge)
		IEC/EN 61000-4-6 (CS)
		IEC/EN 61000-4-8 (PFMF)
Shock		IEC 60068-2-27
Freefall		IEC 60068-2-32
Vibration		IEC 60068-2-6
Battery-powered		UL/IEC/EN 60950-1

Ordering Information	
PS-1080	4-Port Industrial GIGABIT PoE SWITCH 4 GE (PoE) + 2 SFP (GE)
Power Adapter (Included)	90W, 48V, Industrial Grade AC Power Adapter (-30°C to 60°C for 220V AC input) (P/N: PS-9001)

Note :

* The SFP communication distance upon the request (support 550m to 120km).

* Specications subject to change without notice.

Drawing

DIN-Rail Kit