



## PS-1040T



LINK AMERICAN STANDARD

# INDUSTRIAL PoE SWITCH

Unmanaged Industrial PoE Switch

## Scope of Application

The PS-1040T is a Unmanaged Hardened PoE+ Ethernet Switch perfectly suited in harsh environments and an ideal solution to deploy in surveillance systems. The switch is working on OSI Layer 2 and 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-port 10/100/1000Base-T and 1-port Gigabit SFP to satisfy new and evolving network demands in longer distances via its fiber port. With 4 IEEE802.3af/at 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.

## Features Highlight

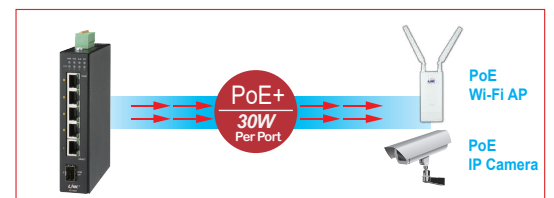
### Robust Performance

With a hardened metal case, surge and ESD protection, the PS-1040T provides a high level of immunity against electromagnetic interference and heavy electrical surges, thus facilitating easy deployment in demanding environments. In addition, the PS-1040T offers high performance switch architecture with five 10/100/1000Base-T ports and one Gigabit Ethernet SFP port 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 PS-1040T 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.



### Fault-tolerant and User-friendly Monitoring

Network administrators can now easily monitor and troubleshoot issues associated with device functionality and link activity using the advanced features of PS-1020. LFS (Link Fault Signalling) enables you to easily detect optical signal strengths and faulty links on both copper and fiber ports. And LLB (Line look back) allows you to remotely isolate and localize network problems, thereby significantly minimizing network downtime. In addition, the LEDs on the device convey essential diagnostic and status information of device power, link activity on ports etc. allowing you to easily monitor without having to get into tight spaces.

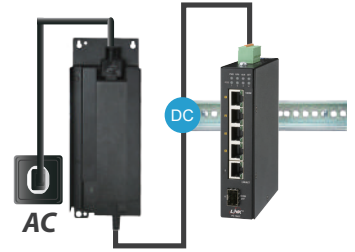




## Features Highlight

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

The PS-1040T 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-1040T in surveillance applications that have little space available.



### Simplified Installation w/ Compact Size

The PS-1040T 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 PS-1040T is equipped with auto MDI/MDI-X and auto-negotiation (automatically detect for half duplex and full duplex) 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 PS-1040T allows you to know switch status and simplify troubleshooting.

## Applications

The PS-1040T combines high-power PoE+, robust performance for surveillance systems in harsh environments. With its compact size, highly reliable and secure features ensure continuous operations in some special requirements for transportation, factory and outdoor places where high vibration degree, shock and wide range temperatures are present.

Traffic Surveillance

Building Surveillance

Factory Surveillance

PoE IP Cameras

Client

NVR

Storage

RJ45 ———

1000 Mbps Fiber ———

Power + Data —PoE—

Control Center

Alarm Device

Outdoor PoE IP Camera

PoE IP Camera

PoE Wi-Fi AP

Power Line —DC—

Alarm Relay ———

Power + Data —PoE—

1000 Mbps Fiber ———

## 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+ 1 x 10/100/1000Base-T, RJ45 port 1 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
Static MAC Address	256
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	Metal Case (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	515g	
Dimension (WxHxD)	31 x 136 x 105 mm	
Certifications		
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)
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-1040T	4-Port Industrial GIGABIT PoE SWITCH 4 GE (PoE) + 1 RJ (GE) + 1 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).

\* Specifications subject to change without notice.

## Drawing

