

# PS-0010

## Unmanaged Industrial PoE+ Media Converter

1-Port 10/100Base-T PoE/PoE+ and 1-Port Gigabit SFP



### Description

Offering an affordable and reliable solution for most demanding surveillance applications, LINK designs PS-0010, Unmanaged Industrial PoE+ Media Converter. Best suitable for harsh environment due to global warming, the switch is engineered with industrial grade components to tolerate operating temperature from  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$  enabling 24/7 surveillance. Designed with IEEE802.3af/at compliant Fast Ethernet copper port, the media converts can deliver per port 30W power budget to satisfy the power hungry devices like Wireless AP, VoIP phones and IP cameras eliminating the need of external power outlets. The single multi-rate 100/1000Mbps SFP port offers extended connectivity to enlighten PDs over long distances.

Configuring with easy monitoring and fault diagnosable features like Auto MDI/MDIX, LFS (Link Fault Signaling), LLB (Line Loop back), LEDs, DIP switches etc., the media converter establishes a round the clock IP surveillance network with minimize downtime even in challenging and hard-to-reach environment.

**RoHS** **CE** **FC**

### Features Highlight



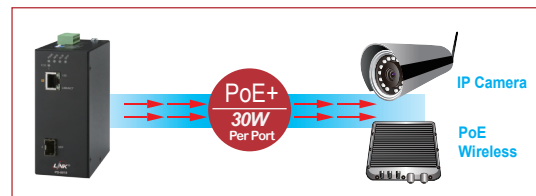
### Robust Performance and Protection

PS-0010 is enclosed within IP30 metal case and can able to sustain harsh temperature ranging between  $-40^{\circ}\text{C}$  ~  $75^{\circ}\text{C}$ . Along with this, the media converter is built with various protection features such as ESD Protection, Surge Protection, Over Voltage/Current protection, Reverse Polarity Protection and Short Circuit Protection to deliver non-stop PoE power to the Powered Devices.



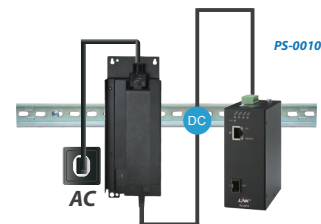
### High-Power Budget for PoE Network Devices

The PS-0010 media converter 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 significantly reduce your CAPEX.



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

Offering a low-cost, simply installation and easy to use solution, PS-0010 is designed with 4-pin power connector and adjustable DIN-Rail power holder. Being acting as a primary power source, the adapter not can easily power up the PDs and prevents from accidental power shutdown due to losing power. Those innovated designs are helping to reduce the burdens of installation and maintenance, increase the stability and availability of surveillance systems.



### Redundant DC Power

Considering the power failure impact in surveillance applications, PS-0010 is developed with standard "6-pin Terminal Block" for redundant power to provide continuous service resulting reliable and consistent network. In addition, the switch is equipped with alarm feature to notify the occurrence of power failure, helps in quick respond and faster trouble shooting.

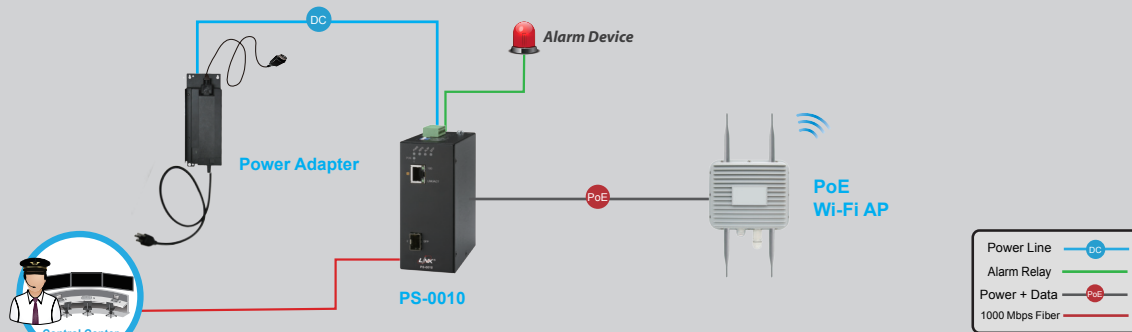
### Easy-fault Diagnosable and User-friendly Monitoring

Network administrators can now easily monitor and troubleshoot issues associated with device functionality and link activity using the advanced features of PS-0010. LFS (Link Fault Signaling) enables you to easily detect optical signal strengths and faulty links on both copper and fiber ports. And LLB (Line loop 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.

**Applications**

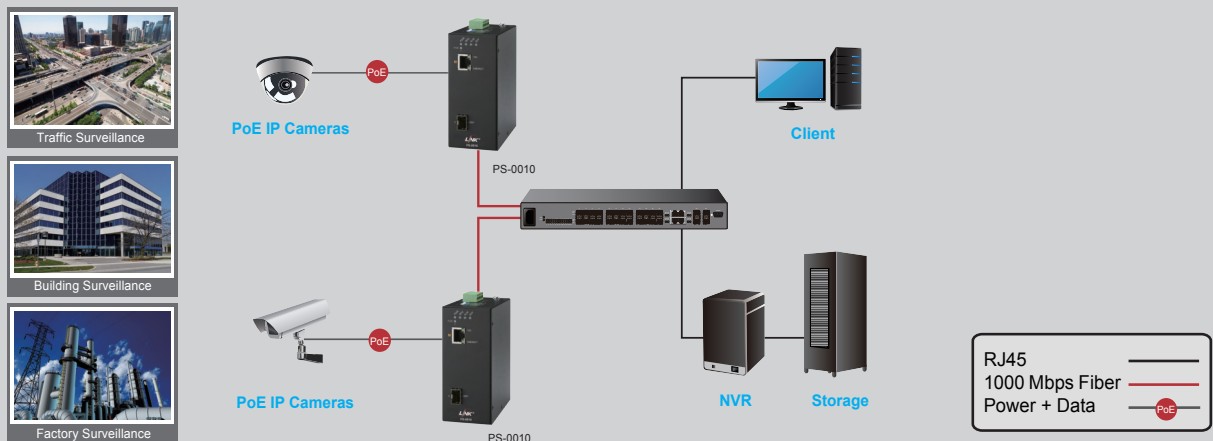
### Scalable Ethernet plus Easy Fiber Extension to Control Room

The PS-0010 guarantees a strong, stable connection of Ethernet, Fast Ethernet or Gigabit Ethernet, providing flexible deployment options to satisfy surveillance networking requirements. Addition to this, the switch can be easily extended to control center with hassle-free fiber to enable a full-proof and complete surveillance.

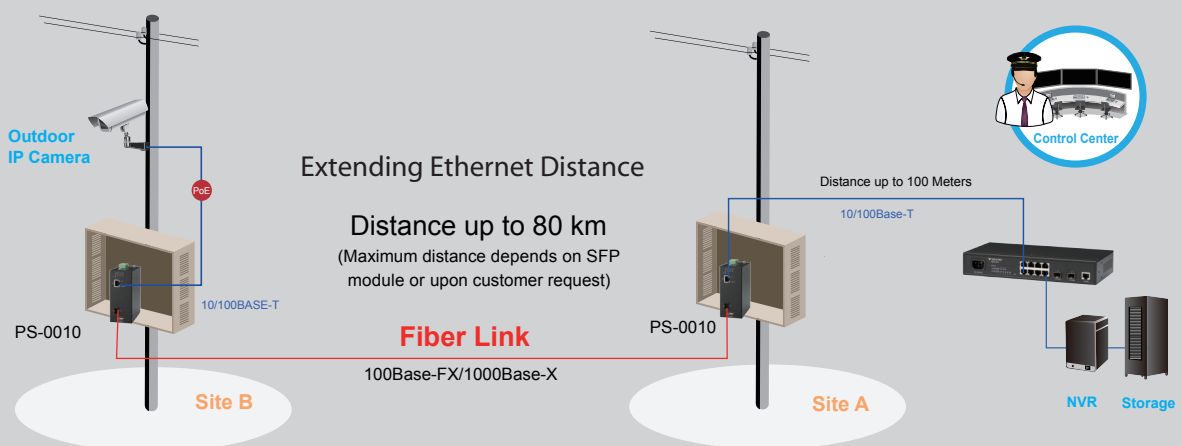

**Surveillance Applications**

### Rugged PoE Enables IP Surveillance

The PS-0010 combines high-power PoE+, robust performance for surveillance systems in harsh industrial environments. With its compact size and demanding features, it ensures continuous operations in some special requirements for transportation, factory and outdoor places where high vibration degree, shock and wide range of temperatures are present.


**Applications**

### Fiber-Optic Link Capability Enables Extension of Network Deployment



**Specifications**

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX, 100Base-FX
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
Performance	
Fabric	4Gbps
Packet buffer	1Mbit
MAC table size	8K
Jumbo Frame size	10KBytes
MTBF	2,697,503 hrs.
BER	<1E-12
Power	
Input Voltage	Primary: 48~57VDC Redundant: 48~57VDC
Power Connection	4-pin DC-Jack (48VDC) (Primary Power Input) 6-pin Terminal block (Primary/Redundant Power Input)
Power Input Polarity Protection	Present
Power Voltage Drop Alarm	Primary/Redundant Power Input
Alarm Relay	One relay output with current carrying capacity of 1A @ 24V DC
Power Consumption	System : 7W PoE Power Budget : 30W
ESD Protection	8KV, 15KV (contact/air)
Surge Protection	6KV
PoE+ Functions	
PoE+ Functions	IEEE 802.3at powered devices Supports PoE Power up to 30W for each PoE port Auto detect powered devices (PDs) Remote Power feeding up to 100m
Interface	
Ports	1x100Base-FX/1000Base-X, SFP port 1x10/100Base-T PoE/PoE+, RJ45 port
Device Monitoring & Management	
Device Monitoring	LFS (Link Fault Signalling)
Device Management	LLB (Line Loopback)
Security	Port Isolation
DIP Switch	Primary/Redundant Power Voltage Drop Alarm setting

**Mechanical and Environment**

Housing	Metal Case (IP30 protection)
Mounting	DIN-Rail, Wall Mount (optional)
Operating Temperature	-40°C~75°C
Storage Temperature	-40°C~85°C
Operating Humidity	10 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	456g
Dimension (WxHxD)	50 x 116 x 100 mm
LED Panel	PWR, RPS, ALM, SFP, PoE, 100, LNK/ACT

**Standards and Certifications**

Safety	EN60950	
FCC	Part 15 Subpart B Class A	
CE	EMI	EN55022 class A EN 55024 IEC/EN 61000-4-2 (ESD) IEC/EN 61000-4-3 (RS) IEC/EN 61000-4-4 (EFT) IEC/EN 61000-4-5 (Surge) IEC/EN 61000-4-6 (CS) IEC/EN 61000-4-8 (PFMF)
	EMS	

**Approval & Test**

Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

**Ordering Information**

PS-0010	Unmanaged Industrial PoE+ Media Converter 1x10/100Base-T PoE/PoE+ and 1x1G SFP port
PS-0012M	With 100Base-FX, Multi-mode SFP, 2km
PS-0014S	With 100Base-FX, Single-mode SFP, 30km
PS-0015S-xx	With 100Base-FX, Single-mode SFP (up to 100km)

**Optional Accessories**

Power Adapter	90W, 52V, Industrial Grade Power Adapter (-30°C~60°C for 110V AC input / -30°C~70°C for 220V AC input)
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**Note :**

\* The SFP communication distance upon the request.

\* Industrial SFP with wide operating temperature from -40°C~85°C is available upon request.

\* Specifications subject to change without notice.

**Dimension**
