

PS-0020

Unmanaged Industrial PoE+ Media Converter

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



Description

Engineered with hardened components and enclosed in a rugged metal case, PS-0020, Unmanaged Industrial PoE+ Media Converter is capable enough to tolerate extreme temperature -40°C to 75°C , offering a reliable network for harsh IP surveillance applications. The media converter is compiled with 2 ports PoE+ (IEEE802.3af/at) to satisfy the demand of transmitting voice, video, data over a single network cable eliminating the need for additional electrical outlets. The multi rate 100/1000Mbps SFP port making it a convenient solution for applications located far away from traditional power outlets.

To establish an always available surveillance network, the media converter is assimilated with excellent features like Auto MDI/MDIX for easy plug-and-play, faster link fault diagnosable through LFS (Link Fault Signaling) and LLB (Link Loop Back), easy-to-monitor LEDs and easy-to-control DIP switches. Ensuring non-stop operation in harsh outdoor environments, PS-0020 is considered as an affordable solution for most demanding surveillance applications.

RoHS **CE** **FC**

Features Highlight



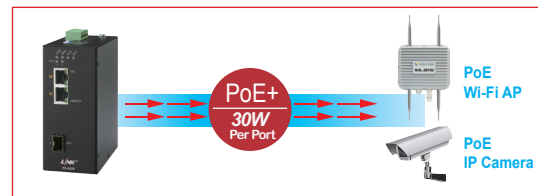
Robust Performance and Protection

PS-0020 is enclosed within IP30 metal case and can able to sustain harsh temperature ranging between -40°C ~ 75°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-0020 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.

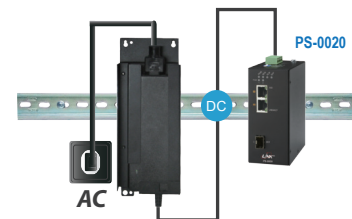


Easy-fault Diagnosable and User-friendly Monitoring

Network administrators can now easily monitor and troubleshoot issues associated with device functionality and link activity using the advanced features of PS-0020 engineered with hardened components and enclosed in a rugged metal case. 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.

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

Offering a low-cost, simply installation and easy to use solution, PS-0020 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.



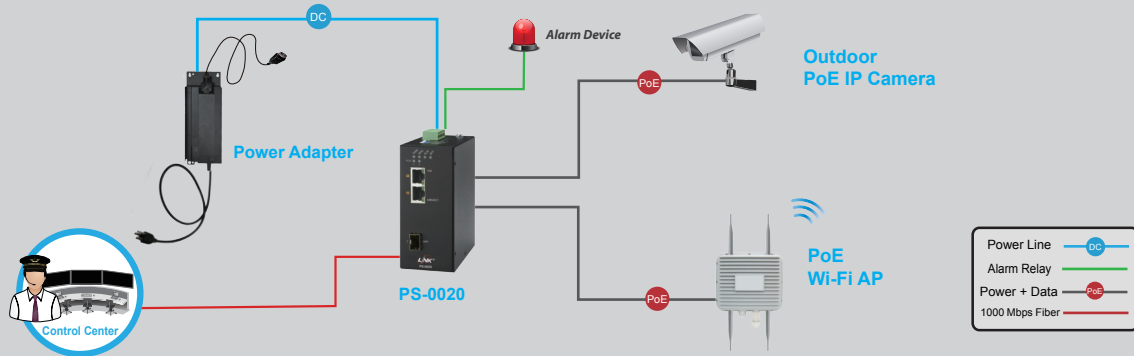
Redundant DC Power

Considering the power failure impact in surveillance applications, PS-0020 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.

Applications

Scalable Ethernet plus Easy Fiber Extension to Control Room

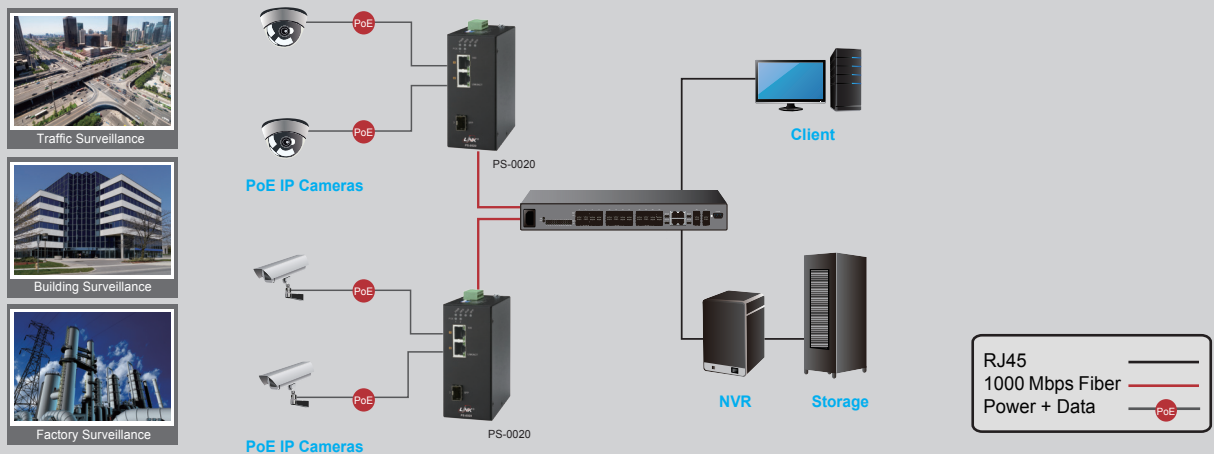
The PS-0020 guarantees a strong, stable connection of Ethernet, Fast Ethernet or Gigabit Ethernet, providing flexible deployment options to satisfy surveillance networking requirements. Addition to this, the switch can be easily extended to control center with hassle-free fiber to enable a full-proof and complete surveillance.



Surveillance Applications

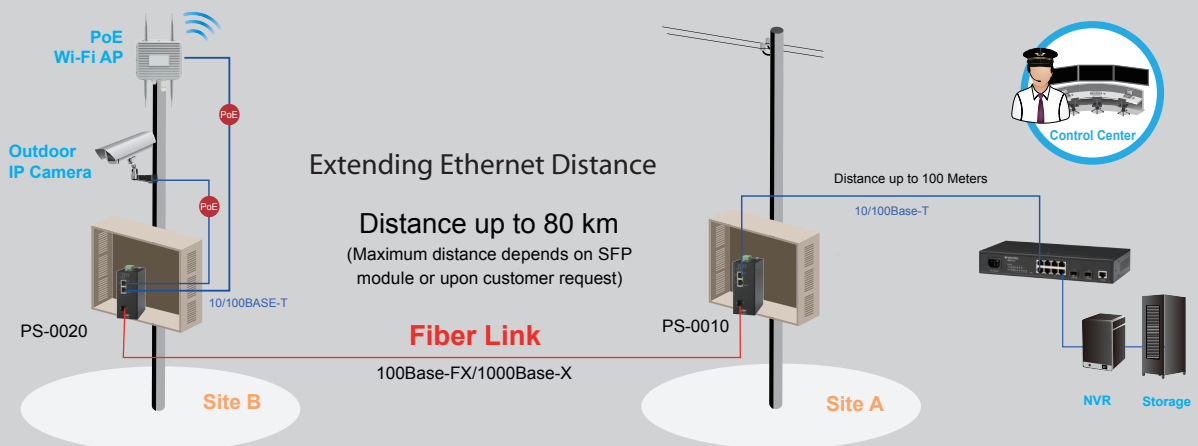
Rugged PoE Enables IP Surveillance

The PS-0020 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	6Gbps
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 : 8W PoE Power Budget : 60W
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	1x100FX/1000Base-X, SFP port 2x10/100Base-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-0020	Unmanaged Industrial PoE+ Media Converter 2x10/100Base-T PoE/PoE+ and 1x1G SFP port	
PS-0021M	With 100Base-FX 1.25G, Multi-mode SFP, 550m	
PS-0022M	With 100Base-FX 1.25G, Multi-mode SFP, 2km	
PS-0024S	With 100Base-FX 1.25G, Single-mode SFP, 30km	
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)	

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
