

PS-3140

Lite Managed Industrial PoE+ Switch

4-Port 10/100/1000Base-T PoE/PoE+ with 1-Port GE + 1-Port Gigabit SFP Uplink



RoHS CE FC



Description

The PS-3140 is a Lite Managed Industrial PoE+ Ethernet Switch perfectly suited in harsh environments and an ideal solution for easy managed 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 with auto MDI/MDI-X and 1-Port SFP 100Base-FX/1000Base-X 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 up to 30W 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 Cat5e cables or above.

In addition, the switch facilitates built-in basic software features such as Port-BASED priority, Loop Detection, Flow Control, Storm Control and other network management functions to deliver a rock solid, adjustable networks, to ensure impressive uptime even in the most challenging conditions.

Features Highlight

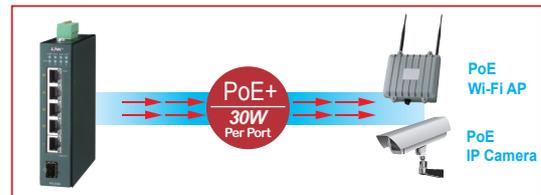
Robust Switch Performance

With a hardened metal case, surge and ESD protection, the PS-3140 provides a high level of immunity against electromagnetic interference and heavy electrical surges, thus facilitating easy deployment in demanding environments. In addition, the PS-3140 offers high performance switch architecture with five 10/100/1000Base-T ports and one 100Base-FX/1000Base-X SFP port to meet the requirements of high-bandwidth access in wide operating temperatures.



High-Power Budget for PoE Network Devices

To fulfill the growing demand of high-bandwidth, high-power PoE for network applications and eliminating the cost of electrical cabling and circuits, the PS-3140 is designed under IEEE802.3af/at standard PoE+. With 120W PoE power budget capability for whole system, the switch allows simple "plug-n-play" PoE for various types of high power consuming PoE devices. This makes the PS-3140 a very convenient solution for applications far away from power outlets satisfying PoE extension applications in much longer distances.



Intelligent PoE Alive Checking

The PS-3140 is designed with intelligent PoE+ features to utilize power more efficient. To monitor real-time status of PDs, the switch sends alive-checking packets to PDs. If a PD fails to respond, the switch's PD live check feature detects the failure and reactivates the PD. This reduces management burden and increases system reliability.



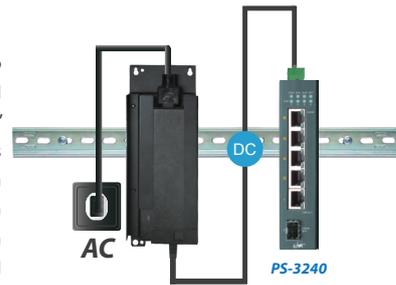
Simplified Installation w/ Compact Size

The PS-3140 provides varied choice of deployment locations even in small space, harsh environments, quick and easy installation way by its compact size. Every PS-3140 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 PS-3140 allows you to know switch status and simplify troubleshooting.

Features Highlight

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

The PS-3140 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) and standby (RPS) 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.

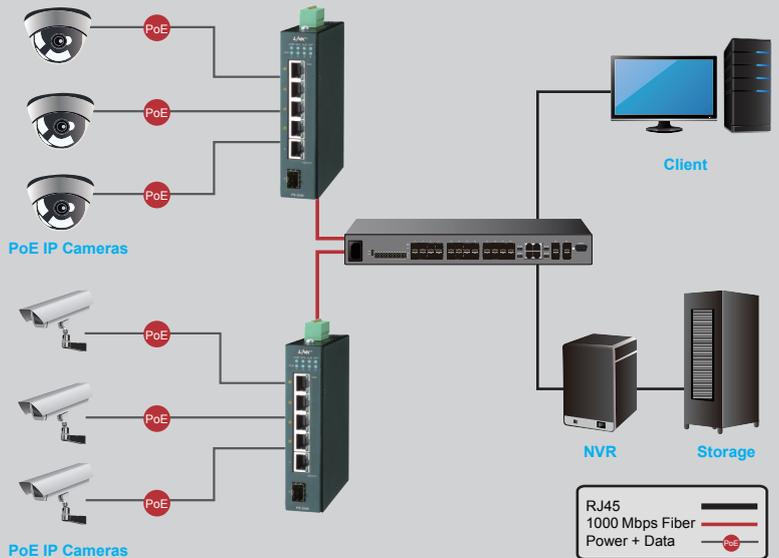


Efficient Network Monitoring and Proactive Capability

In a network, the issues that impact network performance can be quickly resolved with the PS-3140's most accepted and enhanced traffic management, monitoring and analysis protocols. SNMP allows administrators to centrally manage different levels in a network, QoS, Event Alarm gives the capability to monitor the network performance. PS-3140 can help to ensure a reliable network by identifying connectivity and performance issues and isolating the problem remotely on individual switches. This avoids high OPEX and provides administrators the control they need to manage a healthy and efficient network.

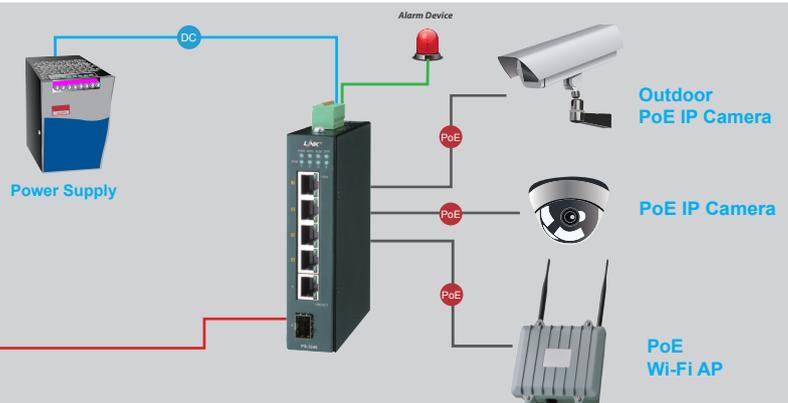
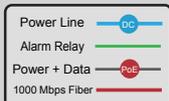
Surveillance Applications

The PS-3140 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.



Applications

The PS-3140 is compatible with 10/100/1000Mbps through RJ45 transceivers to guarantee a strong, stable of Ethernet, Fast Ethernet or Gigabit Ethernet, providing flexible deployment options to satisfy surveillance networking requirements.



Specifications

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX, 100Base-FX
IEEE 802.3ab	1000Base-T
IEEE 802.3z	1000Base-SX/LX
IEEE 802.3x	Flow Control
IEEE 802.1ab	LLDP
IEEE 802.3af	PoE
IEEE 802.3at	PoE+
Interface	
Ports	4x10/100/1000Base-T PoE/PoE+, RJ45 port 1x10/100/1000Base-T, RJ45 port 1x100Base-FX/1000Base-X, SFP port
DIP Switch	Primary/Redundant Power Voltage Drop Alarm Setting
LED Panel	PWR, RPS, ALM, SFP, PoE, 1000, LNK/ACT
Features	
Performance	Max Jumbo Frame Size: 10KB
	MAC Table Entries: 8K
	Switch Fabric: 12Gbps
	L2 Forwarding Rate: 8.9Mpps
	Packet buffer size: 4.1Mbit
	MTBF : 435,903 hrs. BER : <1E-12
Management	Web GUI, SNMP v1/v2c, Firmware Upgradable, Configuration Backup/Restore, SNTP, LLDP, DHCP Client, Mirroring, ONVIF Discovery
	Port Priority, Flow Control, Storm Control, Loop Detection
Traffic Control	Port Priority, Flow Control, Storm Control, Loop Detection
PoE/PoE+	PD Alive Check PoE Power Budget: 90W
Power	
Input Voltage	Primary: 48V (48~57V DC) Redundant: 48V (48~57V DC)
	4-pin Min-Din DC-Jack (Primary Power Input) 6-pin Terminal block (Primary/Redundant Power Input)
Connector	4-pin Min-Din DC-Jack (Primary Power Input) 6-pin Terminal block (Primary/Redundant Power Input)
Power Consumption	System: 10W With 4 PoE+ ports full loaded: 120W
	Alarm Relay
Surge protection	6KV

Mechanical and Environment			
Housing	Aluminum Case (IP30 protection)		
Mounting Kit	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	290g		
Dimension (WxHxD)	31 x 136 x 105 mm		
Standards and Certifications			
FCC	Part 15 subpart B	Class A	
CE	EMI	EN55011 EN55022 class A 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
	Ordering Information		
PS-3140	Lite Managed Industrial PoE+ Switch 4x10/100/1000Base-T PoE/PoE+, 1x10/100/1000Base-T and 1x1G SFP port		
PS-3141M	With 1000Base-SX 1.25G, Multi-mode SFP, 550m		
PS-3142M	With 1000Base-SX 1.25G, Multi-mode SFP, 2km		
PS-3144S	With 1000Base-LX 1.25G, Single-mode SFP, 20km		
Optional Accessories			
Power Supply	90W, 52V, Industrial Grade Power Adapter (-30°C~60°C for 110V AC input / -30°C~70°C for 220V AC input)		

*Industrial SFP with wide operating temperature from -40°C~85°C is available upon request
*Specifications subject to change without notice.

Dimension
