INDUSTRIAL PoE SWITCH

8-Port Lite Managed INDUSTRIAL GIGABIT PoE SWITCH

PS-3180

Scope of Application

Realizing the essentiality in ease of use for 24/7 surveillance for today's society, LINK develops PS-3180 Lite Managed Industrial PoE+ switch. The PS-3180 is working on OSI Layer 2 and engineered for outdoor installation with hardened components and enclosed in a case which can operate in wide temperature from -40°C to 75°C, and playful even in harsh environments providing reliable surveillance.

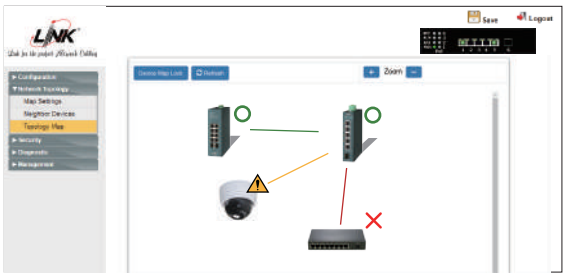
The switch is compiled with intelligent PoE+ (IEEE 802.3af/at) function on 8-Gigabit copper ports and allows to supply up to 30W per port power budget over the single Ethernet cable to satisfy Powered Devices such as Wireless AP, VoIP phones and IP cameras eliminating the need of external power outlets.

The 2-slot 100Base-FX/1000Base-X SFP give the advantages of conguring ring topologies for a safe, reliable and long distance Gigabit connectivity. In addition, the switch offers an easy to use of real-time management functions to allow conguration and monitoring. Designed with sufficient beneficial features, PS-3180 can be considered as a reliable option for harsh outdoor surveillance.

Features Highlight

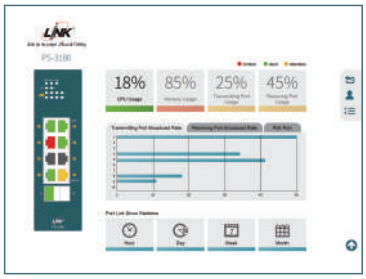
Introducing the Topology Map

Topology Map embedded Element Management System that allows users to monitor and view the topology map of connected devices and neighboring switches along with the link status. Its LLDP feature allows it to advertise its identities and capabilities on the wired Ethernet. This map like feature simplies the network connection viewing and helps patterning by clicking on the icon.



Dashboard

The dashboard is an intelligent system provides apparent views of real-time switch parameters in an engaging, easy-view format for the end-users. Dashboard's at-a-glance designs with the color scheme enable the users for easy understanding and troubleshooting within the device and connected network.



Robust Switch Performance

With a aluminum case, surge and ESD protection, the PS-3180 provides a high level of immunity against electromagnetic interference and heavy electrical surges, thus facilitating easy deployment in demanding environments. In addition, the PS-3180 offers high performance switch architecture with eight 10/100/1000Base-T ports and one 100Base-FX/1000Base-X Ethernet SFP slot to meet the requirements of high-bandwidth access in wide operating temperatures.

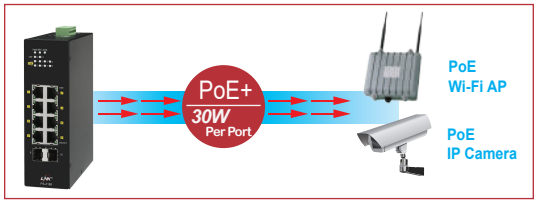
Features Highlight

Future-proof Fiber Connectivity with Dual 100FX/Gigabit SFP Slots

With two multirate SFP slots, the PS-3180 easily establishes ber channel for gigabit Ethernet connectivity and allows to take advantage of ber based daisychain topology. The switch provides long distance, high-speed ber connectivity while offering enhanced noise immunity and data security across deployed systems. The PS-3180 is a well-suited robust, cost-effective and future-proof solution for ber based surveillance networks.

High-Power Budget for PoE Network Devices

To fulll the growing demand of high-bandwidth, high-power PoE for network applications and eliminating the cost of electrical cabling and circuits, the PS-3180 is designed under IEEE 802.3at standard PoE+. With 240W 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-3180 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-3180 is designed with intelligent PoE+ features to utilize power more efcient. 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.

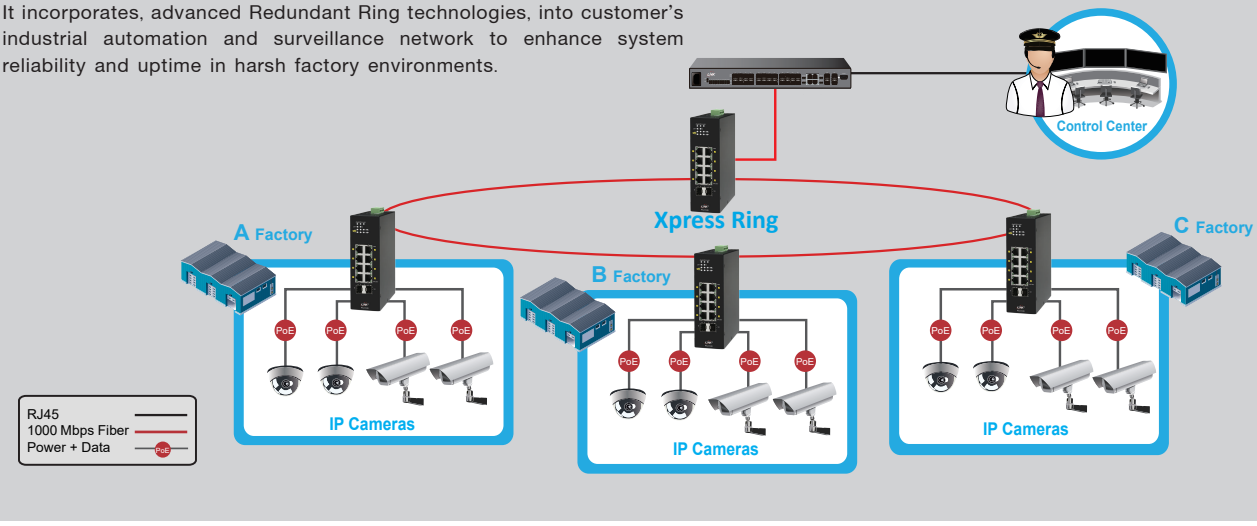
Simplied Installation w/ Compact Size

The PS-3180 provides varied choice of deployment locations even in small space, harsh environments, quick and easy installtion way by its compact size. Every PS-3180 is equipped with auto MDI/MDI-X and auto-negotiation 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 t the device. With diagnostic LEDs panel, the PS-3180 allows you to know switch status and simplify troubleshooting.

Applications

Redundant Ring

It incorporates, advanced Redundant Ring technologies, into customer’s industrial automation and surveillance network to enhance system reliability and uptime in harsh factory environments.



Technical Data

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 802.3af	PoE
IEEE 802.3at	PoE+
IEEE 802.3az	Energy Efficient Ethernet (EEE)
IEEE 802.1ab	LLDP
IEEE 802.1Q	VLAN Tagging
IEEE 802.1d	Spanning Tree Protocol (STP)
IEEE 802.1w	Rapid Spanning Tree Protocol (RSTP)
IEEE 802.1p	QoS
IEEE 802.1x	Port-based authentication
Interface	
Ports	8 x 10/100/1000Base-T, RJ45 port with PoE/PoE+
	2 x 100Base-FX/1000Base-X, SFP port
DIP Switch	ALM: PWR, RPS FUN: Storm, QoS, 100FX
LED Panel	PWR, RPS, ALM, SFP, PoE, 1000, LNK/ACT
Performance	
Switching Capacity	20Gbps
Forwarding Rate	14.9Mpps
Packet Buffer Size	4.1Mbit
MAC Table Size	8K
Jumbo Frame Size	10KBytes
SDRAM	128MB
Flash Memory	32MB
Features	
Management	CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Syslog, Management VLAN, SNTP, Conguration Backup/Restore, DHCP Client, Port Mirroring, Firmware upgradable, LLDP Server (service) control, Port Utilization, IPv4 Client Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Conguration (enable/disable, speed/duplex), ONVIF, Port Statistic, User Account with authority System reboot from remote side, Web GUI
Reliability	STP/RSTP ERPS v1/v2, Code redundancy
VLAN	4094 VLAN IDs available Port-based VLAN, Port Isolation
Trafc Control	QoS, Flow Control, IGMP v1/v2/v3 Snooping, Traffic Monitor (Abnormal Traffic Detection), Storm Control, Port Isolation, Loop Detection Storm alarm threshold per port
Security	ACL (Access control list), Port Security (MAC limit) Port-based 802.1X, BPDU Guard BPDU Filter, ROOT Guard, Trusted Managed Host
PoE/PoE+	PoE Scheduling, PD Alive Check, PoE Power on/off, PoE Priority, Power budget control per system, Power budget control per port, Power delay

Power		
Input Voltage		Primary: 48V to 57V DC
		Redundant: 48V to 57V DC
Power Connection		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: 240W (Full loaded)
ESD Protection		4KV, 8KV (contact/air)
Surge Protection		Ethernet port: 6KV Power input: 1KV
Mechanical and Environment		
Housing		Metal (IP30 Protection)
Mounting		DIN-Rail
Operating Temperature		-40°C to 75°C
Storage Temperature		-40°C to 85°C
Operating Humidity		5 to 95% RH (non-condensing)
Storage Humidity		5 to 95% RH (non-condensing)
Weight		560g
Dimension (WxHxD)		50 x 160 x 120 mm
Certications		
Safety		UL/IEC/EN 60950-1
FCC		Part 15 Subpart B Class A
CE	EMI	EN 55011
		EN 55032
		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
Ordering Information		
PS-3180		8-Port Lite Managed GIGABIT PoE SWITCH 8 GE (PoE) + 2 SFP (GE)
Power Adapter (Included)		160W, 48V, Industrial Grade AC Power Adapter (-30°C to 60°C for 220V AC input) (P/N: PS-9003, Y-Type)

Note :

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

** Specications subject to change without notice.*

Drawing