SISPM1040-582-LRT

Hardened Switch

MANAGED HARDENED GIGABIT ETHERNET POE++ SWITCH INTEGRATED WITH PERCEPXION SOFTWARE

(8) 10/100/1000Base-T PoE++ Ports + (2) 100/1000Base-X SFP Slots

The SISPM1040-582-LRT is a managed PoE++ switch suitable for connecting and powering devices in hardened environments. It has (8) 10/100/1000 PoE++ ports with (2) 100/1000 dual speed SFP slots. The switch can supply up to 90 Watts per port on (4) ports or 60 Watts per port on (8) ports simultaneously.

This switch comes Integrated with the Lantronix cloud based Percepxion™ software platform, providing comprehensive device life cycle management, enterprise application integration, and data analytics, all through a single pane of glass.

The switch also includes DMS, accessible by Percepxion or the local web manager, provides advanced configuration and management of all IP addressable devices in the network, including a graphical network topology, floor map creator, device map view, traffic monitoring, and network diagnostics for troubleshooting.

Lantronix's hardened switches are certified to operate reliably in harsh environments such as those found on factory floors, outdoor enclosures or other challenging environments.

Features	Benefits
IEEE 802.3bt/at/af Compliant	Delivers higher power more efficiently by utilizing all four pairs of structured wiring. Increases maximum PSE output power to up to 60 Watts (Type 3) or up to 90 Watts (Type 4) PoE++ power
Supply up to 90 Watts Output	Support for higher power enables new applications such as PTZ security cameras, LED lighting or digital signage
Auto Power Reset (APR)	Automatically monitors and resets powered devices when unresponsive, reducing service dispatches for simple device resets
PoE Scheduling	Provides capability to enable or disable power to specific ports during designated days and times, contributing to energy conservation and cost savings
Up to 480 Watts PoE Budget	Higher PoE power to more devices allows up to 60 Watts on all eight ports simultaneously or up to 90 Watts on four ports simultaneously
NEMA TS-2 Certified	Meets standards established by the National Electrical Manufacturers Association (NEMA) to ensure safe and reliable operation in Intelligent Transportation Systems (ITS). This certification ensures you are receiving high quality, enhanced solutions for your ITS network
Device Management System (DMS)	This unique set of value-added features and capabilities lowers overall cost, reduces downtime, and provides easier management and maintenance of the connected PoE network

End-to-End Solutions

LANTRONIX **PERCEPXION**

ELEVEL Technical Services

Applications:

- IP cameras with PTZ, temperature control, washer/wipers or other advanced features
- Intelligent Lighting
- Intelligent Transportation System (ITS)
- Digital signage

Markets:

Security & Surveillance

Smart Buildings

PoE Lighting

Digital Signage

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Specifications

Standards

- IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ae, IEEE 802.3x, IEEE 802.3ad, IEEE 802.1D, IEEE 802.1w, IEEE 802.1s, IEEE 802.1Q, IEEE 802.1p, IEEE 802.1ad, IEEE 802.1AB, IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt, IEEE 802.3ah, IEEE 802.1ag, IEEE 802.3az, IEEE 1588 v2
- ITU-T Y.1731, ITU-T G.8031, ITU-T G.8032
- IEC62439-2

Network Interface

- Store-and-forward switching architecture
- (8) 10/100/1000 Mbps RJ-45 ports; (2) 100/1000 Mbps SFP slots; (1) Console RJ-45 port
- Protocols: CSMA/CD
- MAC Address: 8K MAC Address Table
- Backplane: 20 Gbps

PoE Features

- IEEE 802.1AB LLDP-MED Configuration
- PoE Configuration
- PoE Scheduling
- Power Delay
- Auto Power Reset
- DHCP per Port
- Always on PoE

Software

- Percepxion IoT Edge Solutions Platform
- DMS web manager for advanced configuration and management
- Management: Web Management, SNMP V1/V2c/V3, SSH, CLI
- Port Trunk: Supports IEEE 802.3ad port trunk with link aggregation control protocol (LACP) and static trunk
- Multicast: Support IGMP Snooping V1/V2/V3, MVR, MLD Snooping V1/V2
- Quality of Service: Supports 8 hardware queues. Strict priority and WRR, Ingress policer, Egress shaping and per port rate control
- Spanning Tree: Supports IEEE 802.1s MSTP, IEEE 802.1w RSTP and IEEE 802.1D STP Compliant
- VLAN: Port Based VLAN, IEEE 802.1Q tag-based, up to 4k VLAN entries, QinQ, MAC-based VLAN, Management VLAN, Voice VLANs, and Private VLAN
- Firmware Update through TFTP and HTTP/HTTPs
- IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731
- Support IEEE 1588 v2 PTP
- Media Redundancy Protocol (MRP)
- Static Routing

Internal Web Server

- Customizable with CGI
- Web content on local file system and updatable through ftp

Environmental

- Operating: -40° to +75° C (DC input)
- Ingress Protection: IP30

Power

- 13 Watts (without PoE) Power Consumption
- Max PoE Budget: 480 Watts
- 60 Watts for (8) ports simultaneously
- Up to 90 Watts on (4) ports simultaneously
- 52 - 57VDC dual inputs Terminal Block

Certifications

- FCC Class A; CE; NEMA TS-2, UL 2108
- Safety: EN62368-1, UL62368-1

Dimensions

- Size: 62 mm (5.12 in) L
- 62 mm (2.44in) W
- 135 mm (5.31 in) H

Warranty

- 5 years

More Features

- IPv4/IPv6 dual protocols
- Supports Jumbo Frame up to 9K bytes
- Authentication - RADIUS, TACACS+
- DHCP Relay, DHCP Snooping, DHCP Server
- L2/L3/L4 ACLs Support MAC, VLAN ID, or IP address, protocol, per port
- LLDP (Link Layer Discovery Protocol)
- ITU-T G.8031 Ethernet Linear Protection
- ITU-T G.8032 Ethernet Ring Protection Switching
- Rapid Ring for fast recovery
- IEEE 802.3az Energy Efficiency
- IP Source Guard, Port Security
- Port Mirroring
- Syslog

Ordering Information

Part Number	Description
SISPM1040-582-LRT	(8) 10/100/1000Base-T PoE++ ports + (2) 100/1000Base-X SFP slots; 52V - 57 VDC (Din Rail Bracket included)

Accessories Number	Description
SFP Modules	
EDCA-DIO-01	Enclosure Door Contact Alarm
OCA-P181610	18x16x10" Polycarbonate Enclosure
25160	Input 90-264 VAC, 127-370 VDC Output: 48 ~ 55 VDC, 10A, 480 Watts
25104	Input: 85-264 VAC, 124-370 VDC Output: 48 ~ 55 VDC, 5A, 240 Watts
PS-DC-DUAL-5624T	Input: 100-240 VAC 56VDC + 24V output
WMBH-01	Wall Mount Bracket
DRBH-01	Din Rail Bracket

Learn more at lantronix.com/sispm1040-582-lrt

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