MANAGED HARDENED GIGABIT ETHERNET POE+ SWITCHES FULLY INTEGRATED WITH PERCEPXION

(8) 10/100/1000Base-T PoE+ Ports + (4) 100/1000Base-X SFP Slots or (4) 10/100/1000Base-T PoE+ Ports + (2) 10/100/1000Base-T RJ-45 + (2) 100/1000Base-X SFP Slots

The SISPM1040-300 Series are managed PoE+ switches suitable for connecting and powering devices in hardened environments. The switch can supply up to 30 Watts per port on all PoE 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.

End-to-End Solutions

LEVEL Technical Services

Perfect For:

- IP surveillance, supplying power and data to IP cameras
- Monitoring/managing attached powered devices from various vendors
- Outdoor, hardened environment

Markets:

Government

Security & Surveillance

Smart City

Intelligent Transportation

Digital Signage

Features	Benefits
G.8031 and G.8032	Provides industry standard network protection and redundancy while ensuring compatibility among different equipment vendors
DI/DO	Digital Input (DI) can integrate the sensors into the auto alarm system and transfer the alarm through the IP network to save cabling efforts. With Digital Output (DO), the switch can support additional physical contact to trigger alarm
Direct Management of Attached PD	Provides the capability of direct management and control of the attached devices from the embedded DMS
Network Diagnostics	Enabled the switch with enhanced diagnostics including IP connectivity and physical layer cabling checks and tests
Network Monitoring	An easy way to make health checking of PDs with ICMP ping "keep alive" and auto-alarming for exceeded thresholds with the real-time graphical monitoring of traffic and statistics offered by DMS
Views	Topology View, Floor View, Google Maps View
DHCP per Port	Simplifies the installation and maintenance of PDs, by ensuring that the same IP address is always assigned to the device connected to the same port, even if the device is replaced
LLDP-MED	Allows the end-point devices to exchange power related information including power priority and power value of the powered device

LANTRONIX

Specifications

Standards

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

MAC Address
• 8K

Backplane
• 16Gbps (362 only)   • 24Gbps (384 only)

Serial Console
• RJ-45

Status LEDs
• System, Power1, Ring Master, Coupling, Power2, Alarm, Port Status

Dimensions
• Width: 2.4" [62 mm]   • Depth: 5.3" [135 mm]
• Height: 5.4" [130 mm]

DIP Switch (2-pin)
• Rapid Ring setting

Reset button
• Reset the switch, Restore Factory default

Digital output (relay)
• 24VDC/1A

Digital input
• Level 0 (Low): 0V to 6V   • Level 1 (High): 10V to 24V

Power Input (362 only)
• 48 - 57VDC; redundant inputs with reverse polarity protection and overload current protection

Power Input (384 only)
• 44 - 57VDC (>52V for 802.3at PoE+ recommended, >48V for IEEE 802.3af PoE recommended); Dual inputs Terminal Block

Power Consumption Without PoE
• 8.2 Watts (362 only)   • 11.1 Watts (384 only)

Power-over-Ethernet (362 only)
• 120 Watts Max Budget   • 30 Watts on all (4) PoE+ Ports Simultaneously

Power-over-Ethernet (384 only)
• Total PoE Budget: 240 Watts   • 30 Watts output on all 8 ports simultaneously

Ingress Protection
• IP30

Environment
• Operating: -40°C to +75°C   • Humidity: 5% to 95% (non-condensing)
• Storage: -40°C to 85°C   • Altitude: 0 – 10,000 ft.

Weight
• 2 lbs. [0.9 kg] (362 only)   • 2.2 lbs. [1 kg] (384 only)

MTBF
• 100,874 hours (362 only)   • 92,110 hours (384 only)

Certifications*
• EMI: CE, FCC Part 15, EN61000-4-2, EN61000-4-3, EN-61000-4-4, EN61000- 4-5, EN61000-4-6, EN61000-4-8, IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration), NEMA TS-2; Safety: IEC62368-1/EN62368-1

Warranty
• 5 Years

*Please contact sales with certification needs

Features

• Supports Jumbo frames up to 9.6K Bytes
• Ring Protections
  - Industry standard G.8032 Ethernet Ring Protection Switching (ERPS)
  - Support G.8031 Ethernet Linear Protection Switching (EPS)
  - Rapid Ring with recovery time less than 20ms
• Radius, TACACS+, User Authentication
• Supports LLDP Protocol
• HTTPS/SSH v1/v2 Network Security
• Temperature Detection and Alarm
• Support HW Watchdog to resume operation from CPU hang up
• IEEE 1588 v2 PTP
• Port Mirroring
• Power-over-Ethernet
  - Port Configuration
  - Auto Power Reset (APR)
  - DHCP per Port
  - Always on PoE
  - PoE Scheduling

Features (Continued)

• IEEE 802.3ad LACP, up to 6 groups and up to 4 ports per group
• Percepxion IoT Edge Solutions Platform
• DMS web manager for advanced configuration and management
• Up to 4K VLAN groups, Port based, IEEE 802.1Q tag, Q-in-Q, MAC based VLAN, Management VLAN, Private VLAN Edge, Voice VLAN, GVRP
• ACL - up to 256 entries, Drop or Rate limiting based on: Source and Destinations MAC, VLAN ID and IP address, protocol, port, DSCP/ IP precedence, TCP/UDP source and destination ports, IEEE 802.1p priority, Ethernet type, ICMP packets and TCP flag
• Loop Protection
• Quality of Service
  - Supports 8 hardware queues
  - Scheduling: strict priority and WRR, Queue assignment based on DSCP and class of service
  - Classification: Port based, IEEE 802.1p VLAN priority based, IPV4/IPV6 precedence /DSCP based, DiffServ, Classification and re-marking ACLs
  - Rate limiting: Ingress policer, Engress shaping and rate control, per port
• IPv4/IPv6 dual stacks and static routing
• Port Security, IP Source Guard
• System Alarms via SYSLOG / SNMP Trap
• DHCP Client/Server, DHCP relay, Option 82
• Port based network access control (IEEE 802.1X)
• Web / SNMP v1,v2c,v3 / Telnet / CLI management
• Media Redundancy Protocol (MRP)

Ordering Information

Part Number	Description
SISPM1040-362-LRT	(4) 10/100/1000Base-T PoE+ ports + (2) 10/100/1000Base-T RJ-45 ports + (2) 100/1000Base-X SFP slots (Din Rail Bracket included)
SISPM1040-384-LRT-C	(8) 10/100/1000Base-T PoE+ [100 m/328 ft.] ports + (4) 100/1000Base-X SFP slots (Din Rail Bracket included)

Accessories Number	Description
SFP Modules	
EDCA-DIO-01	Enclosure Door Contact Alarm
OCA-P181610	18x16x10" Polycarbonate Enclosure
25104	Input: 85-264 VAC, 124-370 VDC Output: 48~55 VDC, 5.0A, 240 Watts
25105 (362 only)	Input: 85-264 VAC, 124-370 VDC Output: 48~55 VDC, 2.5A, 120 Watts
25160 (384 only)	Input: 90-264 VAC, 124-370 VDC Output: 48~55 VDC, 10A, 480 Watts
PS-DC-DUAL-5624T	Input: 100-240 VAC; Output: 56VDC + 24V Mounting Brackets (sold separately)
WMBH-01	Wall Mount Bracket
DRBH-01	Din Rail Bracket

Learn more at lantronix.com/sispm1040-300-series

LANTRONIX