

## Managed Hardened Gigabit Ethernet PoE+ Switch

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



The SISPM1040-362-LRT is a managed PoE+ switch suitable for connecting and powering devices in hardened environments. The switch can supply up to 30 Watts per port on all (4) PoE ports simultaneously. The switch also includes the embedded Device Management System (DMS) software that provides the advanced tools necessary for total management of all IP addressable devices. The unique DMS provides security integrators with lower overall cost, less downtime and easier management of the entire PoE+ network.

Transition Networks' hardened switches are certified to operate reliably in harsh environments such as those found on factory floors, outdoor enclosures or other

challenging environments.

### Features

- Store-and-Forward Architecture with 16 Gbps Switching Bandwidth
- 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
  - PoE Scheduling
  - Complies to IEEE 802.3at, IEEE 802.3af
- IEEE 802.3ad LACP, up to 6 groups and up to 4 ports per group
- 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

### Specifications

Standards	IEEE 802.3 IEEE 802.3z IEEE 802.3x IEEE 802.1p IEEE 802.1w IEEE 802.1X IEEE 802.1ad IEEE 802.3at IEEE 802.1ag IEEE 1588 v2 ITU-T G.8031 IEC62439-2	IEEE 802.3u IEEE 802.3ab IEEE 802.3ad IEEE 802.1Q IEEE 802.1s IEEE 802.1AB IEEE 802.3af IEEE 802.3ah IEEE 802.1D ITU-T Y.1731 ITU-T G.8032
MAC Address	8K	
Backplane	16Gbps	
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	48 - 57VDC; redundant inputs with reverse polarity protection and overload current protection	
Power Consumption Without PoE	8.2 Watts	
Power-over-Ethernet	120 Watts Max Budget 30 Watts on all (4) PoE+ Ports Simultaneously	
Ingress Protection	IP30	
Environment	Operating: -40°C to +75°C Storage: -40°C to 85°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.	
Weight	2 lbs. [0.9 kg]	
MTBF	100,874 hours	
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: IEC60950-1, UL Class 1/Div 2	
Compliant* (Designed to Meet)	EN50155, EN50121-4, DNV, IEC61850-3, IEEE1613	
Warranty	5 Years	

\*Please [contact sales](#) with certification needs

### Device Management System (DMS)

- Graphical Monitoring – Topology view, Floor view, Map view
- Traffic Monitoring
- Troubleshooting – Network diagnostic, protection mechanism, performance and link management

### Ordering Information

#### 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)

#### Optional Accessories (sold separately)

##### SFP Modules

##### EDCA-DIO-01

Enclosure Door Contact Alarm

##### OCA-P181610

18x16x10" Polycarbonate Enclosure

#### Industrial Power Supplies (sold separately)

##### 25104

Input: 85-264 VAC, 124-370 VDC  
Output: 48~55 VDC, 5.0A, 240 Watts

##### 25105

Input: 85-264 VAC, 124-370 VDC  
Output: 48~55 VDC, 2.5A, 120 Watts

##### PS-DC-DUAL Series

Input: 100-240 VAC  
**PS-DC-DUAL-5624T:** 56VDC + 24V output  
**PS-DC-DUAL-5612T:** 56VDC + 12V output

#### Mounting Brackets (sold separately)

##### WMBH-01

Wall Mount Bracket

##### DRBH-01

Din Rail Bracket

### Features (Continued)

- 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, Egress 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)