# Managed Hardened PoE++ Switch with Device Management System

## Applications
- IP cameras with PTZ, temperature control, washer/wipers or other advanced features
- Intelligent Lighting
- Intelligent Transportation System (ITS)
- Thin Client, POS system, digital signage

## Features and Benefits

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>IEEE 802.3bt/at/af Compliant</td>
<td>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</td>
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<tr>
<td>Supply up to 90 Watts Output</td>
<td>Support for higher power enables new applications such as PTZ security cameras, LED lighting or digital signage</td>
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<td>Auto Power Reset (APR)</td>
<td>Automatically monitors and resets powered devices when unresponsive, reducing service dispatches for simple device resets</td>
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<td>PoE Scheduling</td>
<td>Provides capability to enable or disable power to specific ports during designated days and times, contributing to energy conservation and cost savings</td>
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<td>Up to 480 Watts PoE Budget</td>
<td>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</td>
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<td>NEMA TS-2 Certified</td>
<td>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</td>
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<tr>
<td>Device Management System (DMS)</td>
<td>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</td>
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SISPM1040-582-LRT
Managed Hardened Gigabit Ethernet PoE++ Switch
(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. 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
- 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 Gaurd, Port Security
- Port Mirroring
- Syslog

PoE Features
- Compliant with IEEE 802.3bt PoE++
- Compliant with IEEE 802.3at PoE+
- Compliant with IEEE 802.3af PoE
- IEEE 802.1AB LLDP-MED Configuration
- PoE Configuration
- PoE Scheduling
- Power Delay
- Auto Power Reset
- DHCP per Port
- Always on PoE

Device Management System (DMS)
- Graphical Monitoring – Topology view, Floor view, Map view
- Traffic Monitoring
- Troubleshooting – Network diagnostic, protection mechanism, performance and link management

Specifications
- Standards
  - Protocols: CSMA/CD
  - Technology: Store-and-forward switching architecture
- Connectors
  - (8) 10/100/1000 Mbps RJ-45 ports
  - (2) 1000/1000 Mbps SFP slots
  - (1) Console RJ-45 port
- MAC Address
  - 9K MAC address table
- Backplane
  - 20 Gbps
- DIP Switch
  - Rapid Ring Setting (2-Pin)
- 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
- Dimensions
  - Width: 5.44” [132 mm]
  - Depth: 5.12” [130 mm]
  - Height: 5.31” [135 mm]
- Power Input
  - 52 - 57VDC dual inputs Terminal Block
- Power-over-Ethernet
  - Max PoE Budget 480 Watts
  - 60 Watts for (8) ports simultaneously
  - Up to 90 Watts on (4) ports simultaneously
- Ingress Protection
  - IP30
- Environment
  - Operating: -40°C to +75°C (DC input)
- Certifications
  - FCC Class A, CE, NEMI TS-2, UL 2043, UL 2108
- Compliance
  - Designed to Meet: IEC68180-3, IEEE 1613, Class 1 Div 2
- Warranty
  - 5 Years

*Please contact sales with certification needs

SISPM1040-582-LRT
(8) 10/100/1000Base-T PoE++ ports + (2) 100/1000Base-X SFP slots
52V - 57 VDC

Optional Accessories (sold separately)
- Mounting Brackets (sold separately)
  - WMBH-01 Wall Mount Bracket

Ordering Information

Software Features
- 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 HTTP and HTTPS
- IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731
- Support IEEE 1588 v2 PTP
- Media Redundancy Protocol (MRP)
- Static Routing