SISGM1040-284-LRT

MANAGED HARDENED GIGABIT ETHERNET SWITCH INTEGRATED WITH PERCEPXION™ SOFTWARE

(8) 10/100/1000Base-T Ports + (4) 100/1000Base-X SFP Slots

The SISGM1040-284-LRT is a managed switch suitable for connecting devices in hardened environments. 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
Hardened temperature range	Reliably operates within a wide temperature range (-40 C to +75 C) for harsh environments.
12 - 48 VDC power input	Wide range DC power input, fit for a majority of industrial applications such as Industrial IoT and Factory Automation.
(4) dual-speed SFP slots	(4) 100 or 1000Base-X SFP slots can be used for Multiple Rings for network redundancy.
Full wire-speed Gigabit ports	Increase throughput for bandwidth-demanding applications.
G.8031 and G.8032	Provides industry standard network protection and redundancy while ensuring compatibility among different equipment vendors.
IEC 62439-2 MRP	Features an open standard for Ring topologies in industrial networks enabling faster recovery times, it's ideal for mission critical industrial Ethernet applications.
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 contacts to trigger alarms.
Slim Form factor	Easily fits into the existing cabinets with limited space.
Network Diagnostics	Switch is enabled with enhanced diagnostics including IP connectivity and physical layer cabling checks and tests.

End-to-End Solutions

PERCEPXION

LEVEL Technical Services

Applications:

- Industrial Internet of Things
- Factory Automation
- IP surveillance

Markets:

Warehouse

Utilities

Industrial Automation

Manufacturing

LANTRONIX

Specifications

Standards

- IEEE 802.3
- IEEE 802.3x
- IEEE 802.1Q
- IEEE 802.1ad
- IEEE 802.1X
- ITU-T G.8032

- IEEE 802.3u
- IEEE 802.3az
- IEEE 802.1w
- IEEE 802.3ah
- IEEE 1588 v2
- IEC62439-2

- IEEE 802.3z
- IEEE 802.3ad
- IEEE 802.1s
- IEEE 802.1ag
- ITU-T Y.1731

- IEEE 802.3ab
- IEEE 802.1p
- IEEE 802.1AB
- IEEE 802.1D
- ITU-T G.8031

MAC Address

- 8K

Backplane

- 24Gbps

Protocol Technology

- CSMA/CD
- Store-and-Forward Switching Architecture

Connectors

- (8) 100/1000 RJ-45
- (4) 100/1000 SFP
- (1) Console RJ-45

Dimensions

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

Power Consumption

- 11 Watts (max)

Power Input

- 12 - 48VDC; dual inputs terminal block

Ingress Protection

- IP30

Environment

- Operating: -40°C to +75°C (DC Input)

Weight

- 2.2 lbs. [1 kg]

MTBF

- 193,332 hours

Certifications

- FCC Class A, CE, UL Listed, IEC62368-1/EN62368-1, NEMA TS-2

Compliant* (Designed to Meet)

- IEC61850-3, IEEE1613, UL C1/D2

Warranty

- 5 Years

*Please contact sales with certification needs

Features

- Store-and-Forward Architecture with 24 Gbps Switching Bandwidth
- IPv4/IPv6 dual protocols
- Supports Jumbo frames up to 9K Bytes
- Rapid Ring for fast recovery
- Radius, TACACS+, User Authentication
- Supports LLDP Protocol
- IEEE 1588 v2 PTP
- Port Mirroring
- Syslog
- Static routing
- Port Security, IP Source Guard
- Web / SNMP v1,v2c,v3 / SSH / CLI management
- DHCP Relay, DHCP Snooping, DHCP Server
- Port based network access control (IEEE 802.1X)

- L2/L3/L4 ACLs Support MAC, VLAN ID or IP address, protocol, per port
- 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, Q-in-Q, MAC-based VLAN, Management VLAN, Voice VLAN, Private VLAN
- Firmware Update through TFTP, SFTP, and HTTP/HTTPs
- Media Redundancy Protocol (MRP)
- Percepxion™ IoT Edge Solutions Platform
- DMS web manager for advanced configuration and management

Ordering Information

Part Number	Description
SISGM1040-284-LRT	(8) 10/100/1000Base-T [100 m/328 ft.] ports + (4) 100/1000Base-X SFP slots (Din Rail Bracket included)

Optional Accessories (sold separately)

Part Number	Description
SFP Modules	
EDCA-DIO-01	Enclosure Door Contact Alarm
OCA-P181610	18x16x10" Polycarbonate Enclosure

Industrial Power Supplies (sold separately)

Part Number	Description
25165	12VDC, 24 Watts output
25130	48VDC, 40 Watts output
SPS-UA12DHT	Input: 90-264 VAC, 12VDC, 18 Watts output
PS-DC-DUAL-5624T	Input: 100-240 VAC 56VDC + 24V output

Mounting Brackets (sold separately)

Part Number	Description
WMBH-01	Wall Mount Bracket
DRBH-01	Din Rail Bracket

Learn more at lantronix.com/sisgm1040-284-lrt

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