

MANAGED INDUSTRIAL POE PLUS ETHERNET SWITCH 8-PORT 10/100/1000BASE-T + 4 SFP GIGABIT PORTS GGM INS8RP4LCA



8-port PoE
10/100/1000Base-T 260 m

4-port SFP (10/100/1000)

Manageable SNMP

Redondancy Ethernet

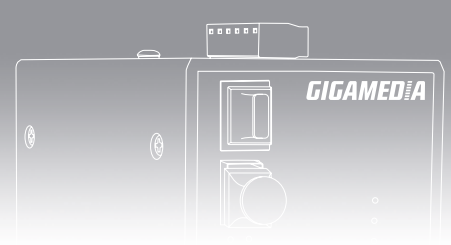
GGM INS8RP4LCA Managed Industrial switch is equipped with 8 port 10/100/1000Base-T and 4 Gigabit SFP slots that are PoE+ compliant. Engineered with hardened components and enclosed in a rugged case, the switch can operate in wide temperatures from -10 °C to 70 °C and excellent tolerance capability to high vibration and shock. As an Industrial switch, the GGM INS8RP4LCA suits your heavy industrial environments and yet contains all the standard features of other switches.

PoE+ function on 8 ports 10/100/1000 Base-T complies with IEEE 802.3at standards and allows to supply up to 30 W per port for network attached devices such as WLAN Access Points, VoIP phones and IP surveillance cameras that can be powered by Ethernet connectivity. The GGM INS8RP4LCA eliminates the need for installing additional power outlets or adapters, thus network power planning is simplified and overall installation and maintenance costs are reduced. In addition, the Layer 2 switch offers a full complement of management functions to allow easy-to-use configuration and monitoring.

MAIN FEATURES

• ROBUST SWITCH PERFORMANCE

GGM INS8RP4LCA is built with IP30 aluminum case protection, surge and ESD protection to deliver robust performance and withstand extreme conditions in industrial environments. The SFP ports support 1000Mbps for high bandwidth transmissions and the SFP DDM feature enables service providers to monitor SFP parameters. In case of any abnormal hardware condition, the switch automatically sends warnings through email and relay output with real-time alarm messages. This assists the system administrators to immediately react to emergency events and diagnose the faults more efficiently for smoother network operations.



• HIGH-POWER BUDGET FOR POE NETWORK DEVICES

To reduce the required time and cost of installing additional electrical sources, the GGM INS8RP4LCA implements PoE+ technology. The switch supplies power over the same cable that is used to carry network traffic and delivers a high power budget of 240 W to suit various power requirements. Using SNMP and Web interface, the PoE+ functions on each port can be enabled and disabled to save power and energy.

• INTELLIGENT POE+ FOR POWERED DEVICES

The GGM INS8RP4LCA is designed with intelligent PoE+ features to utilize power more efficiently. To monitor real-time status of PDs, the switch sends alive-checking packets to PDs. This reduces management burden and increases system reliability. Using power scheduling mechanism of the switch, administrators can set power on each port to a desired hourly/weekly schedule and can enable or disable the power output to these devices accordingly.

• REDUNDANT POWER SYSTEM

Mission-critical industrial applications need to operate without any interruptions because even a minimum network downtime can hugely impact the overall output. Providing continuous power as well as data to such applications is now made easy with GGM INS8RP4LCA redundant power system. The switch is designed with standard industrial terminal block for redundant power. In case the primary power supply fails, the secondary power will enable the switch to provide continuous service.

• EFFICIENT NETWORK MONITORING AND PROACTIVE CAPABILITY

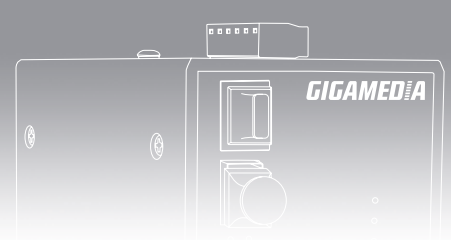
In a network, the issues that impact network performance can be quickly resolved with the GGM INS8RP4LCA's most accepted and enhanced traffic management, monitoring and analysis protocols such as SNMP and RMON. SNMP allows end users to centrally manage different levels in a network and RMON gives the capability to monitor the network performance. Service providers can ensure a reliable network by identifying connectivity and performance issues and isolating the problem remotely on individual switches. This avoids high OPEX and provides administrators the control they need to manage a healthy and efficient network.

• BANDWIDTH MANAGEMENT TO PREVENT UNPREDICTABLE NETWORK STATUS

Industrial surveillance applications need different levels of services delivered to them reliably without any transmission delays and interruptions. The GGM INS8RP4LCA has comprehensive QoS mechanisms which assign priority to applications and sends only specific dedicated traffic to them. In addition, bandwidth management function of the switch allocates high bandwidths to mission-critical communications and reduce the bandwidth to applications that are less critical. With full control of limiting the bandwidth, the administrators can prevent unpredictable errors and utilize the bandwidth more effectively.

• REDUNDANT RING AND FAST RECOVERY FOR SURVEILLANCE SYSTEM

Even few seconds of missed communications due to link failures, especially in IP surveillance systems, can cause inconvenience and recovering it becomes very critical. Featuring with Xpress Ring, GGM INS8RP4LCA can rapidly react to such link failures and recovers it within less than 10 ms, a much faster fail-over time to support nonstop transmissions. And to handle the heavy traffic load of video and data, the switch implements.



PRODUCT SPECIFICATIONS

STANDARDS

IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3ab	1000BASE-T
IEEE 802.3z	1000BASE-SX/LX
IEEE 802.3x	Flow Control
IEEE 802.3ad	Link Aggregation
IEEE 802.1d	STP
IEEE 802.1w	RSTP
IEEE 802.1s	MSTP
IEEE 802.1p	CoS Prioritization
IEEE 802.1q	VLAN Tagging
IEEE 802.1x	Port Authentication
IEEE 802.3af	Power over Ethernet
IEEE 802.3at	Power over Ethernet Plus

NETWORK MANAGEMENT

Configuration	Command Line Interface, Telnet, Web GUI, SNMP v1/v2c/v3, Management VLAN, System log, Firmware Upgradable, Configuration Upload/Download
VLAN	IEEE 802.1Q, GARP/GVRP support, Port-based VLAN, 4K active VLAN support
Redundancy	Xpress Ring, Dual Homing, ERPS, STP/RSTP/MSTP, LACP
Security	Access Control List, SSH, Port Security, 802.1x Port Authentication, DHCP snooping, MAC limitation, TACAS+, ARP Inspection
Traffic control	IGMP snooping v1/v2/v3, MLD snooping v1/v2, QoS, Flow Control, Abnormal Traffic Detection, Rate Limitation
Diagnostics	Storm Control, Port Isolation, Loop Detection LED status, SNMP trap, E-mail alarm, SFP DDMI, Port Mirroring, Port Statistic, SNTP, RMON, Syslog

POWER

Input voltage	Primary inputs: 48 V (48~57 V DC) Redundant inputs: 48 V (48~57 V DC)
Power consumption	18 W (system) 260 W (with 8 PoE plus fully loaded)
Alarm relay	1 relay output with current carrying capacity of 1 A @ 24 V DC
PoE function	Per port up to 30 W

INTERFACE

Ports	8x 10/100/1000Base-T (PoE+ RJ45) 4x Gigabit SFP slots 1x Console Port (RJ45 to RS232)
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MECHANICAL AND ENVIRONMENT

Housing	IP30
Mounting	Din-Rail
Operating temperature	-10 °C~70 °C
Storage temperature	-40 °C~85 °C
Operating humidity	10 to 95% RH (non-condensing)
Storage humidity	5 to 95% RH (non-condensing)
Weight	860 g
Dimensions	50 x 161.5 x 122.2 mm
DIP Switch	Ports/PWR/RPS Alarm setting
LED Panel	PWR, RPS, ALM, POST, PoE ports, 1000, 10/100

STANDARDS AND CERTIFICATIONS

EMI	FCC Part 15 Subpart B Class A EN55022 : class A EN 55011 : 2009 class A EN 61000-6-4
EMS	EN 55024 EN 61000-6-2 IEC/EN 61000-4-2 (ESD): level 4 IEC/EN 61000-4-3 (RS): level 3 IEC/EN 61000-4-4 (Burst): level 3 IEC/EN 61000-4-5 (Surge): level 3 IEC/EN 61000-4-6 (CS): level 3

DIMENSIONS

