

# LuLeey INS2M2GF8GT-8POE Datasheet V1.0

## Guide rail managed POE industrial Ethernet switch, with 2 Gigabit fiber ports and 8 Gigabit POE copper ports



- 2 Gigabit trunk fiber ports and 8 Gigabit POE access copper ports are provided
- Fan-free design, operating temperature: -40 ~ 85°C
- IP40-rated protection, shock-resistant aluminum enclosure
- Support for dual power supply redundant backup input, with a wide range of 48-57VDC
- EMC industrial rating level 4 electromagnetic compatibility standard
- WEB interface, dial switch rapid configuration
- Support for one-button recovery of factory settings
- Support for STP/RSTP ring protection, and SNMP V1/V2c network management platform



### Product profile

INS2M2GF8GT-8POE is a guide rail managed industrial Ethernet switch that provides 2 Gigabit fiber ports and 8 Gigabit POE copper ports via a fan-free and low-power design with industrial rating level 4 and IP40-rated protection. Each product, featuring an operating temperature of -40 - 85°C, superior solidness, design for network communications in harsh applications, high EMI/EMS protection, has been 100% qualified in aging tests.

For example, STP/RSTP, 802.1Q VLAN, QoS function, IGMP static multicast function, port aggregation, port mirroring, loop detection, etc.; support for port configuration, jumbo frame mode, port statistics, speed dial configuration, online upgrade, etc.; support for WEB, SNMP and other access methods. The friendly, simple and convenient interface design of network management system offers a good user experience.

### Product features

- Support the 802.1Q VLAN of 4K range;
- IGMP Snooping for filtering multicast traffic;
- Support the web page management configuration; and hardware one-button recovery of factory settings
- Dual power inputs with a wide range of 48-57 VDC;
- Forced Hundred Megabit and Gigabit rate of fiber port facilitates connection with fiber equipment
- Dial switches enable ringing, port isolation and forced 10M
- QoS (IEEE 802.1p and DSCP) improves data transfer certainty;
- Port mirroring feature assists in online troubleshooting and allows for data analysis and monitoring
- Port aggregation increases bandwidth and enhances the reliability of network connection
- Spanning Tree Protocol STP/RSTP ring redundancy
- Port loop detection reduces the impact of access loop on the entire network
- VIP channel 1-2 ports (POE port QOS priority)

### Product properties

#### Applicable standards

IEEE 802.3 10BaseT IEEE 802.3u 100BaseT  
 IEEE 802.3z 1000BaseFX and 1000BaseT  
 IEEE 802.3af/802.3at POE  
 IEEE 802.3x flow control  
 IEEE 802.1d-2004 STP protocol  
 IEEE 802.1w RSTP protocol  
 IEEE 802.1p Qos  
 IEEE 802.1q VLAN  
 IGMP Snooping, SNMPv1/v2c  
 HTTP, DHCP Client

#### Switching feature

Qos queue: 8 VLAN-ID: 1-4094  
 Back plane bandwidth: 20 Gbps List of MAC addresses: 8K  
 Message buffer size: 4.1Mbit

#### Port

Fiber port: 1000 Mbps  
 Copper port: 10/100/1000 Mbps self-adaptive, Full/Half duplex mode, MDI/MDI-X supported.  
 LED indicator: P1, P2, RUN, L/A, POE

#### Power source requirement

Input voltage: DC 48~57V (redundancy)  
 Full-load power consumption: 7W (excluding POE)

#### Physical properties

Enclosure: Aluminum enclosure, IP40-rated protection  
 Size: 142 × 116 × 48 mm

Weight: 720 g

Mounting method: Guide rail type

#### Environmental restrictions

Working temperature: -40 ~ 85°C (-40 ~ 185°F)  
 Storage temperature: -40 ~ 85°C (-40 ~ 185°F)  
 Relative ambient humidity: 5 ~ 95% (non-condensing)

#### Standards and certification

EMS:  
 IEC61000-4-2(ESD) level 4, IEC 61000-4-4 (EFT) level 4, IEC 61000-4-5(Surge) level 4

Anti-vibration performance: IEC 60068-2-6

Shock resistance: IEC 60068-2-27

Free fall: IEC 60068-2-32

MTBF (mean time between failures)

Time: 500000 h

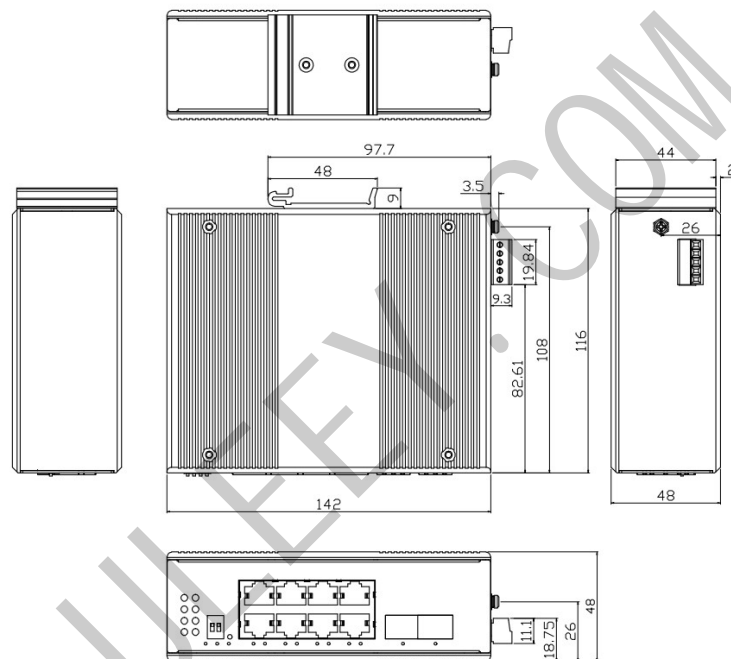
#### Warranty

Quality assurance: 3 years

## Fiber properties

	1000BaseFX	
	Multimode	Single mode
Wavelength	850 nm	1310 /1550nm
Maximum transmission power	-3 dBm	0 dBm
Minimum transmission power	-8 dBm	-10 dBm
Receiving sensitivity	-19 dBm	-22 dBm
Link budget	11 dB	12 dB
Typical distance	550 m	20 km
Saturation	-3 dBm	-3 dBm

## Product size (mm)



## Order information

Optical model	Port type			
	10/100Base T	10/100/1000BaseT	1000BaseFX	
			Single mode	Multimode
M2GF8GT-8POE-M	-	8	2	

### Packing list

- Ethernet switch
- Installation accessories
- User's Manual
- Warranty Card & Conformity Certificate