

# LuLeey INS2M2GF8GT Datasheet V1.0

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



- 2 Gigabit fiber ports and 8 Gigabit 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 9-48 VDC
- 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 is a guide rail managed industrial Ethernet switch that provides 2 Gigabit fiber ports and 8 Gigabit 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 9-48 VDC;
- Forced Hundred Megabit and Gigabit rate of fiber port facilitates connection with fiber equipment
- Dial switches enable ringing and port isolation
- 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

### Product properties

#### Applicable standards

IEEE 802.3 10BaseT  
 IEEE 802.3u 100BaseT  
 IEEE 802.3z 1000BaseFX and 1000BaseT  
 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

#### Power source requirement

Input voltage: DC 9~48 V (redundancy)

Full-load power consumption: 7W

Input current: Maximum DC current, 1A

#### Physical properties

Enclosure: Aluminum enclosure, IP40-rated protection

Size: 142 × 116 × 48mm

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

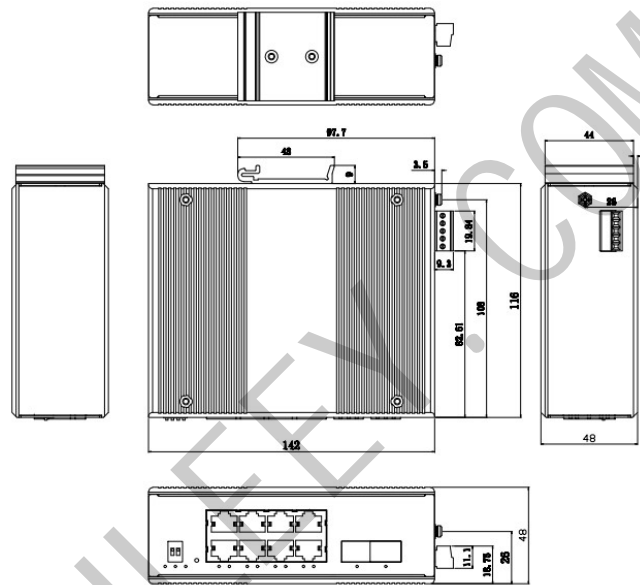
#### Warranty

Quality assurance: 3 years

## Fiber properties

|                            | 1000BaseFX |              |
|----------------------------|------------|--------------|
|                            | Multimode  | Single mode  |
| Wavelength                 | 850 nm     | 1310/1550 nm |
| 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   |                  |             |
|---------------|-------------|------------------|-------------|
|               | 10/100BaseT | 10/100/1000BaseT | 1000BaseFX  |
|               |             |                  | Single mode |
| M2GF8GT-M     | -           | 8                | 2           |

### Packing list

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