

# LuLeey INS2UM1GF8GT Datasheet V1.0

## 9-port industrial Ethernet switch, with 1 Gigabit fiber port and 8 Gigabit copper ports



- 1 Gigabit trunk fiber port and 8 Gigabit access copper ports are provided
- The copper ports support 10/100/1000 Mbps self-adaptation; all ports support MDI/MDIX
- Dial switch with one button for VLAN separation
- Applicable voltage range DC 9~48 V, dual redundant power supply
- EMC industrial rating level 4 electromagnetic compatibility standard
- Having IP40 rated aluminum enclosure and strong shock-resistant rail base
- Applicable for operation at the ambient temperature of -40°C~85°C



### Product profile

INS2UM1GF8GT is an industrial switch with extended temperature ranges developed to fulfill needs in industries including smart traffic, expressways, smart cities, safe cities, new energy, smart manufacturing, and so on. The one Gigabit trunk fiber port and eight Gigabit access copper ports provide a high packet forwarding rate and an ample back plane bandwidth, making the transmission of images clear and smooth.

Having an IP40 rated aluminum enclosure, a rail base designed to withstand severe vibration, and good EMC electromagnetic compatibility, this series of product is capable of working stably and reliably in extreme-temperature (-40°C to 85°C) and rugged industrial environments.

### Product features

- 1 Gigabit fiber port, 8 Gigabit copper ports;
- Capable of working with full load under the temperature of -40°C~85°C;
- The voltage ranges between DC 9~48 V, and dual redundant power supply is provided;
- IP40-rated protection, fan-free design, shock-resistant aluminum enclosure;
- Dial switch with one button for VLAN separation

### Product properties

#### Applicable standards

IEEE 802.3 10BaseT  
IEEE 802.3u 100BaseT  
IEEE 802.3z 1000BaseFX, IEEE 802.3ab 1000BaseT

#### Switching feature

**Backplane bandwidth:** 18 Gbps  
**List of MAC addresses:** 4K

#### Port

**Gigabit fiber port:** 1000 Mbps (port type: LC)  
**Gigabit copper port:** 10/100 Mbps self-adaptive, Full/Half duplex mode, MDI/MDI-X supported

**LED indicator:** PWR1, PWR2, L/A

#### Power source requirement

**Input voltage:** DC 9~48 V (redundancy)  
**Full-load power consumption:** 5W  
**Input current:** Up to 400 mA

#### 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

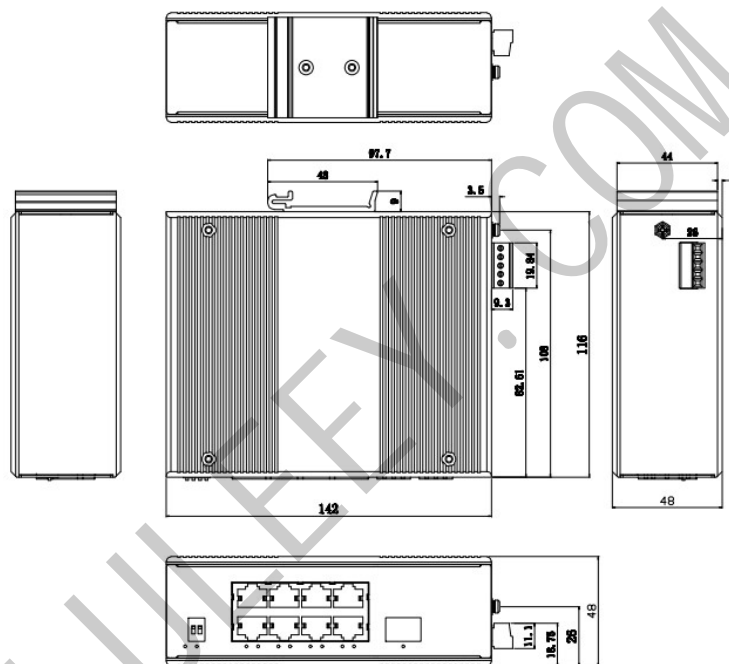
#### Warranty

**Quality assurance:** 3 years

## Fiber properties

	1000BaseFX	
	Multimode	Single mode
Wavelength	850 nm	1310/1550 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			
	10/100Base T	10/100/1000BaseT	1000BaseFX	
			Single mode	Multimode
M1GF8GT	-	8	1	

### Packing list

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