

# LuLeey INS2UM1F4T Datasheet V1.0

## 5-port industrial Ethernet switch, with 1 Megabit fiber port and 4 Megabit copper port



- 1 Megabit trunk fiber port and 4 Megabit access copper ports are provided
- The copper ports support 10/100Mbps self-adaptation; all ports support MDI/MDIX
- Dial switch with one button for VLAN separation, storm suppression
- Applicable voltage range DC9~48V, 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

INS2UM1F4T 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 Megabit trunk fiber port and four Megabit 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 Megabit fiber port, 4 Megabit copper ports;
- Capable of working with full load under the temperature of -40 ~ 85 °C;
- The voltage ranges between DC9~48V, 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, storm suppression

### Product properties

#### Applicable standards

IEEE 802.3 10 BaseT

IEEE 802.3u 100BaseT and 100BaseFX

#### Switching feature

Back plane bandwidth: 1 Gbps

List of MAC addresses: 2K

#### Port

**Megabit fiber port:** 100Mbps (port type: SC)

**Megabit copper port:** 10/100 Mbps self-adaptive, Full/Half duplex mode, MDI/MDI-X supported.

**LED indicator:** PWR, L/A

#### Power source requirement

**Input voltage:** DC9~48V (redundancy)

**Full-load power consumption:** 2.3W

**Input current** Maximum DC current, 400mA

#### Physical properties

**Enclosure:** Aluminum enclosure, IP40-rated protection

**Size:** 116 x 85 x 33 mm

**Weight:** 390 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

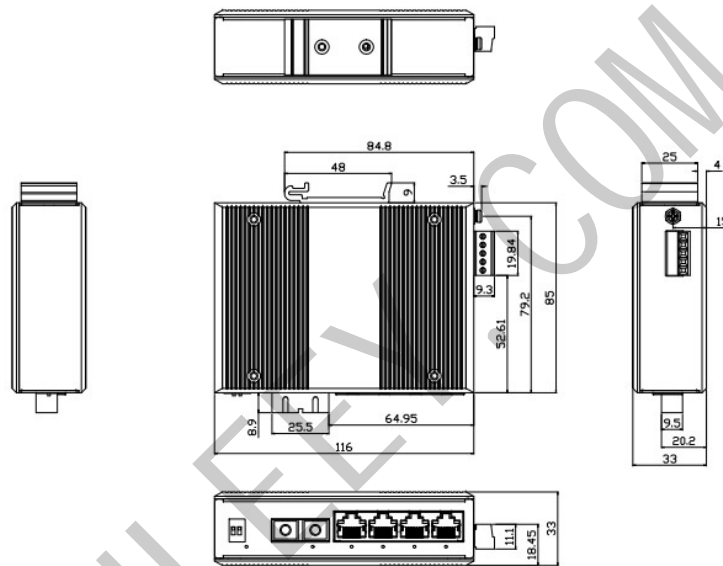
#### Warranty

**Quality assurance:** 3 years

## Fiber properties

	100BaseFX	
	Multimode	Single mode
Wavelength	850 nm	1310 /1550nm
Maximum	-3 dBm	0 dBm
Minimum	-8 dBm	-15 dBm
Receiving	-19 dBm	-32 dBm
Link budget	11 dB	17 dB
Typical distance	2km 550 m	20 km
Saturation	-3 dBm	-3 dBm

## Product size (mm)



## Order information

Optical model	Port type			
	10/100BaseT	10/100/1000BaseT	100BaseFX	
			Single mode	Multimode
M1F4T	4	-	1	

### Packing list

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