2*10/100Base-TX to 2*100Base-FX

Compact Industrial Media Converter

LT-IMC30F-2FX2TX-E

Features:

➢ 2*10/100Base-TX RJ45 ports, 2*100Base-FX SFP ports

➢ DC 12~58V input, redundant power supply with polarity reverse/over-voltage protection

➢ Dip switch function:

1.Fiber redundant; 2. Flow control; 3.Broadcast storm restrain; 4. 10K Bytes Jumbo frame

➢ Support 1M large buffer

➢ Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection

➢ IP40 fan-less and Din-rail hardware design with compact size (30*85*85mm)

➢ Operation temperature: -40 ℃ ~+75℃

Overview

The SmartByte LT-IMC30F-2FX2TX-E is the unmanaged compact industrial grade media converter with 2-port 10/100Base-TX RJ45 and 2-port 100Base-FX fiber optical interfaces. It is featuring with fiber redundant, flow control, broadcast storm restrain and 10K Bytes Jumbo frame function, which all can be configured by the Dip switch on the top panel.

LT-IMC30F-2FX2TX-E is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, such as wide range power input 12-58VDC, redundant power design with polarity reverse/over-voltage protection, robust IP40 fan-less compact housing with Din-rail installation, wide operation temperature from -40°C to 75°C as well as high-level EMI/EMC capability and so on. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions exceed commercial product specifications
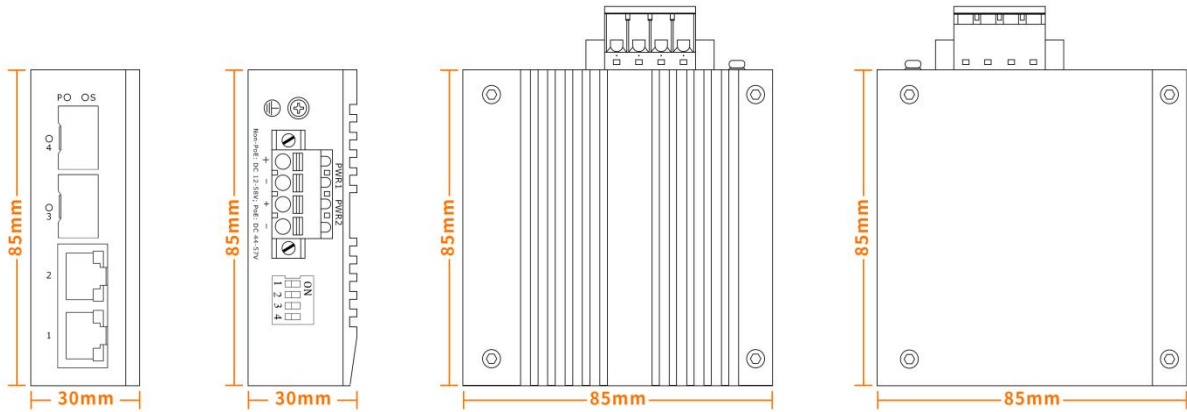
Technical specification

Model No.	LT-IMC30F-2FX2TX-E		
Interface	Fiber ports		Copper RJ45 ports
	2		2
Ethernet	2*10/100Base-TX RJ45 2*100Base-FX SFP		
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet		
Dip Switch	1. Fiber redundant 2. Flow control 3. Broadcast storm restrain 4. 10K Bytes Jumbo frame		
LED Indicators	P(Power indicator) Green	Off: the device is power off or failed	
		On: the device power on is normal	
	S(System indicator) Red	Off: the chip is normal	
		On: the chip read/write is unnormal	
	1-2(Copper ports)	Green indicators	Yellow indicators

		Off: ports link down	Off: port speed is 10M
		On: ports link up	On: port speed is 100M
		Blinking: data on TX/RX	
	3-4 (Fiber ports) Green	Off: ports link down	
		On: ports link up	
		Blinking: data on TX/RX	

Power parameters	
Input voltage	12-58VDC, redundant power input
Input current	0.3A Max
Total power consumption	Full loading ≤3W
Connector	Removable 4-pin terminal block
Reverse polarity protection	Support
Over-voltage protection	Support

Switching features	
Switching capacity	0.8G
Packet forwarding rate	1.9 Mpps
MAC address table	8K
VLAN	4K
Buffer	1M
Forwarding delay	<10us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support

Network Topology	
Star topology	Support
Bus topology	Support
Tree Topology	Support

Mechanical structure	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	30*85*85mm
Weight	0.22 kg
Operating environment	
Operating temperature	-40℃~+75℃
Storage/transportation temperature	-40℃~+85℃
Relative humidity	5%~95%（non-condensing）
Industrial Standard	Surge protection of power: IEC 61000-4-5　Level 3 (4KV/2KV)　（8/20us）
	Surge protection of Ethernet ports: IEC 61000-4-5　Level 3 (4KV/2KV)（10/700us）
	DIP: IEC 61000-4-11　Level 3（10V）
	ESD: IEC 61000-4-2　Level 4（8K/15K）
	Shock：IEC 60068-2-27
	Free fall：IEC 60068-2-32
	Vibration：IEC 60068-2-6
Certification	CCC/CE/FCC/RoHS
Warranty	5 years

Structure diagram

Order information

Model	Description
LT-IMC30F-2FX2TX-E	10/100Base-TX to 100Base-FX unmanaged compact industrial media converter with 2*10/100Base-TX RJ45 ports and 2*100Base-FX SFP slots, DC12-58V input, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40℃～+75℃