

Compact size 10/100M Industrial PoE Media Converter

LT-IMC30FP-E Series



Features:

- 1*10/100Base-TX RJ45 PoE port, 1*100Base-FX SFP(/SC/ST/FC optional) fiber port
- DC 44~57V input, redundant power supply with polarity reverse/over-voltage protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Powerful Dip switch function:
 - 1.LFP; 2. Flow control; 3. 250m long distance; 4.PoE watchdog
- Support 10K Bytes Jumbo frame and 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 °C ~+75 °C

Overview

The SmartByte LT-IMC30FP-E series are unmanaged industrial grade media converter with 1-port 10/100Base-TX PoE and 1-port 100Base-FX fiber optical interface. They comply with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+). Moreover, they are featuring with LFP, flow control, 250m long distance transmission mode and PoE watchdog function, which all can be configured by the Dip switch on the top panel.

LT-IMC30FP-E series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, such as wide range power input 44-57VDC, redundant power design with polarity reverse/over-voltage protection, robust IP40 fan-less compact size housing with Din-rail installation, wide operation temperature from -40°C ~+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

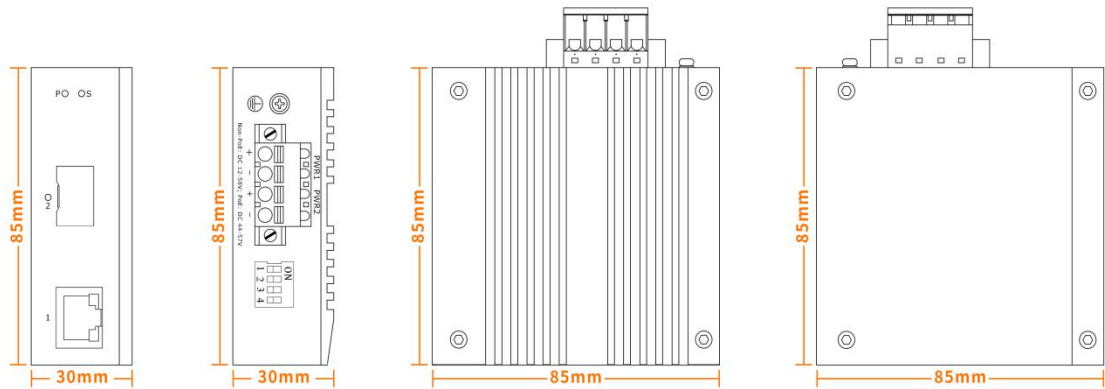
Model No.	LT-IMC30FP-E	
Interface	Fiber port	Copper RJ45 port
	1	1
Ethernet	1*10/100Base-TX PoE 1*100Base-FX SFP (SC/ST/FC optional)	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3af Power-Over-Ethernet IEEE 802.3at Power Over Ethernet plus PSE	
Dip Switch	<ol style="list-style-type: none"> LFP Flow control 250m long distance mode PoE watchdog 	
LED Indicators	P(Power indicator) Green	Off: the device is power off or failed
		On: the device power on is normal
	S(PoE usage indicator) Red	Off: total PoE usage < rated 50%
		On: total PoE usage ≥ rated 90%

	1 (Copper port)	Green indicators	Yellow indicators
		Off: ports link down	Off: PoE not working
		On: ports link up	On: PoE working
	Blinking: data on TX/RX		
	2 (Fiber port) Green	Off: ports link down	
		On: ports link up	
Blinking: data on TX/RX			
Power parameters			
Input voltage	44-57VDC, redundant power input		
Input current	0.75A Max		
Total power consumption	Full loading without PoE $\leq 2W$ PoE power budget $\leq 30W$		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Support		
Over-voltage protection	Support		
Switching features			
Switching capacity	0.4G		
Packet forwarding rate	0.59Mpps		
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		

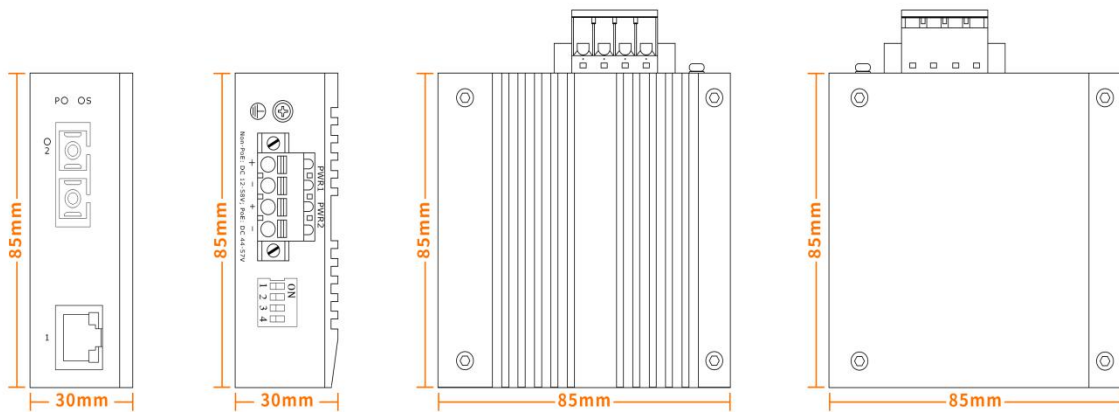
Bus topology	Support
Tree Topology	Support
Mechanical structure	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	30*85*85mm
Weight	0.2 kg
Operating environment	
Operating temperature	-40°C~+75°C
Storage/transportation temperature	-40°C~+85°C
Relative humidity	5%~95% (non-condensing)
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

SFP model



SC/ST/FC model



Order information

Model	Description
LT-IMC30FP-E	10/100Base-TX to 100Base-FX unmanaged compact size industrial PoE media converter with 1*10/100Base-TX RJ45 PoE port and 1*100Base-FX SFP slot, DC44-57V input, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40°C ~+75°C
LT-IMC30FP-SC-E	10/100Base-TX to 100Base-FX unmanaged compact size industrial PoE media converter with 1*10/100Base-TX RJ45 PoE port and 1*100Base-FX SC port, DC44-57V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 2KM -120KM optional; Operation temperature: -40°C ~+75°C
LT-IMC30FP-FC-E	10/100Base-TX to 100Base-FX unmanaged compact size industrial PoE media converter with 1*10/100Base-TX RJ45 PoE port and 1*100Base-FX FC port, DC44-57V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 2KM -120KM optional; Operation temperature: -40°C ~+75°C
LT-IMC30FP-ST-E	10/100Base-TX to 100Base-FX unmanaged compact size industrial PoE media converter with 1*10/100Base-TX RJ45 PoE port and 1*100Base-FX ST port, DC44-57V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 2KM -120KM optional; Operation temperature: -40°C ~+75°C