

## 2\*10/100/1000Base-T PoE to 100/1000Base-X

### Compact Industrial PoE media converter

#### LT-IMC30GP-1GX2GT-E Series



#### Features:

- 2\*10/100/1000Base-T RJ45 PoE ports, 1\*100/1000Base-X 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.Port isolation; 2. Fiber port 100/1000M selection; 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-IMC30GP-1GX2GT-E series are unmanaged compact industrial grade PoE media converter with 2-port 10/100/1000-T PoE and 1-port 100/1000Base-X fiber optical interface. They comply with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. Moreover, they are featuring with port isolation, fiber port 100/1000M selection, 250m long distance transmission mode and PoE watchdog function, which all can be configured by the Dip switch on the top panel.

LT-IMC30GP-1GX2GT-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 compact fan-less 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. They are 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

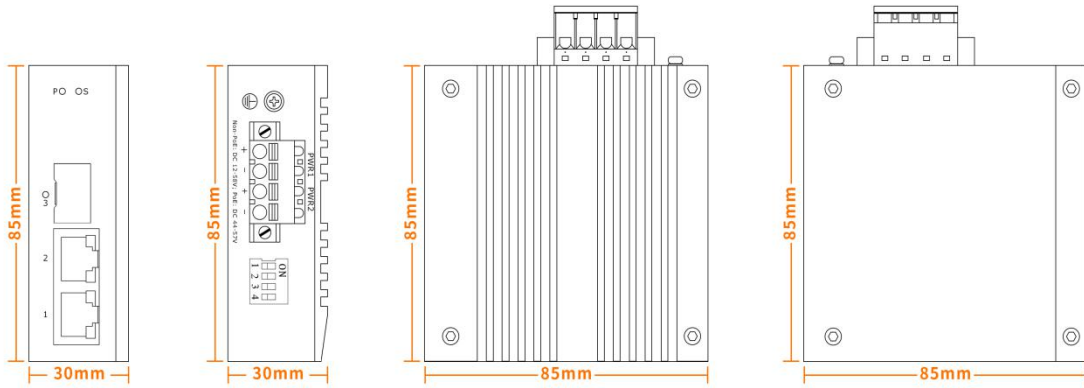
<b>Model No.</b>	LT-IMC30GP-1GX2GT-E	
<b>Interface</b>	Fiber port	Copper RJ45 ports
	1	2
<b>Ethernet</b>	2*10/100/1000Base-T PoE 1*100/1000Base-X SFP (SC/ST/FC optional)	
<b>Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af Power-Over-Ethernet IEEE 802.3at Power Over Ethernet plus PSE	
<b>Dip Switch</b>	1. Port isolation 2. Fiber port 100/1000M selection 3. 250m long distance mode 4. PoE watchdog	
<b>LED Indicators</b>	P(Power indicator) <b>Green</b>	Off: the device is power off or failed
		On: the device power on is normal
	S(PoE usage indicator) <b>Red</b>	Off: total PoE usage < rated 50%

		Blinking: rated 50% < total PoE usage < rated 90%	
		On: total PoE usage ≥ rated 90%	
	1-2(Copper ports)	Green indicators	Yellow indicators
		Off: ports link down	Off: PoE not working
		On: ports link up	On: PoE working
		Blinking: data on TX/RX	
	3 ( Fiber port) Green	Off: ports link down	
		On: ports link up	
Blinking: data on TX/RX			
<b>Power parameters</b>			
Input voltage	44-57VDC, redundant power input		
Input current	1.5A Max		
Total power consumption	Full loading without PoE ≤ 2.5W PoE power budget ≤ 60W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Support		
Over-voltage protection	Support		
<b>Switching features</b>			
Switching capacity	6G		
Packet forwarding rate	8.92 Mpps		
MAC address table	8K		
VLAN	4K		
Buffer	1M		
Forwarding delay	<5us		
Jumbo Frame	Support 10Kbytes		
MDX/MIDX	Support		
Watchdog	Support		

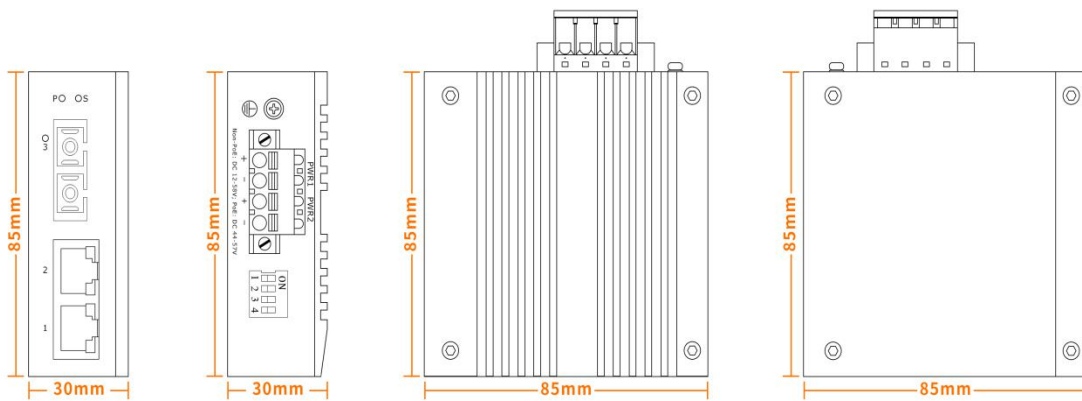
<b>Network Topology</b>	
Star topology	Support
Bus topology	Support
Tree Topology	Support
<b>Mechanical structure</b>	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	30*85*85mm
Weight	0.21 kg
<b>Operating environment</b>	
Operating temperature	-40°C~+75°C
Storage/transportation temperature	-40°C~+85°C
Relative humidity	5%~95% (non-condensing)
<b>Industrial Standard</b>	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
<b>Certification</b>	CCC/CE/FCC/RoHS
<b>Warranty</b>	5 years

## Structure diagram

SFP model



SC/ST/FC model



### Order information

Model	Description
LT-IMC30GP-1GX2GT-E	10/100/1000Base-T to 1000Base-X unmanaged compact industrial PoE media converter with 2*10/100/1000Base-T PoE ports and 1*100/1000Base-X SFP slot, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40°C ~+75°C
LT-IMC30GP-1GX2GT-SC-E	10/100/1000Base-T to 1000Base-X unmanaged compact industrial PoE media converter with 2*10/100/1000Base-T PoE ports and 1*100/1000Base-X SC port, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C ~+75°C
LT-IMC30GP-1GX2GT-FC-E	10/100/1000Base-T to 1000Base-X unmanaged compact industrial PoE media converter with 2*10/100/1000Base-T PoE ports and 1*100/1000Base-X FC port, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C ~+75°C
LT-IMC30GP-1GX2GT-ST-E	10/100/1000Base-T to 1000Base-X unmanaged compact industrial PoE media converter with 2*10/100/1000Base-T PoE ports and 1*100/1000Base-X ST port, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C ~+75°C