2*10/100/1000Base-T to 100/1000Base-X

Compact Industrial Media Converter

LT-IMC30G-1GX2GT-E Series

Features:

➢ 2*10/100/1000Base-T RJ45 ports, 1*100/1000Base-X SFP(/SC/ST/FC optional) fiber port

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

➢ Powerful Dip switch function:

   1.Port isolation; 2.Flow control; 3.Broadcast storm restrain; 4.Fiber port 100/1000M selection

➢ 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 ℃ ~+75℃

Overview

The SmartByte LT-IMC30G-1GX2GT-E series are unmanaged compact industrial grade media converter with 2-port 10/100/1000-T RJ45 and 1-port 100/1000Base-X fiber optical interface. They are featuring with port isolation, flow control, broadcast storm restrain and fiber port 100/1000M selection function, which all can be configured by the Dip switch on the top panel.

LT-IMC30G-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 12-58VDC, 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
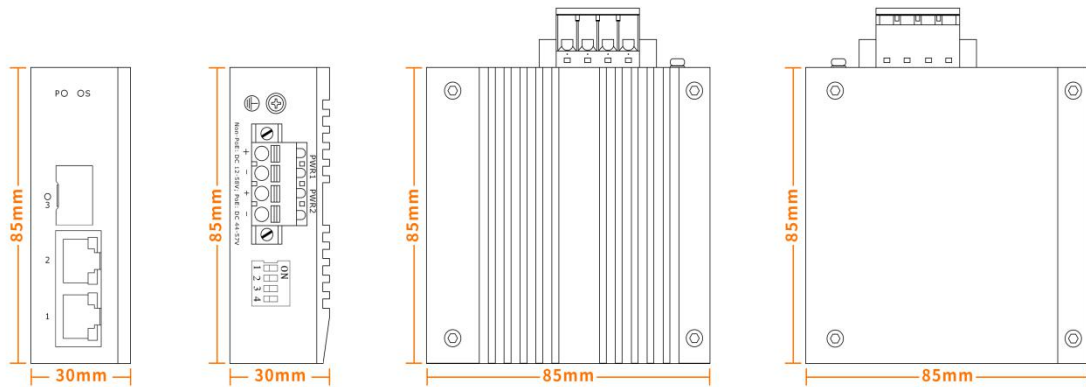
Technical specification

Model No.	LT-IMC30G-1GX2GT-E		
Interface	Fiber port		Copper RJ45 ports
	1		2
Ethernet	2*10/100/1000Base-T RJ45 1*100/1000Base-X SFP (SC/ST/FC optional)		
Standard	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		
Dip Switch	1. Port Isolation 2. Flow control 3. Broadcast storm restrain 4. Fiber port 100/1000M selection		
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 10/100M
		On: ports link up	On: port speed is 1000M
		Blinking: data on TX/RX	
	3 (Fiber port) 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	0.2A Max
Total power consumption	Full loading ≤2.5W
Connector	Removable 4-pin terminal block
Reverse polarity protection	Support
Over-voltage protection	Support

Switching features	
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

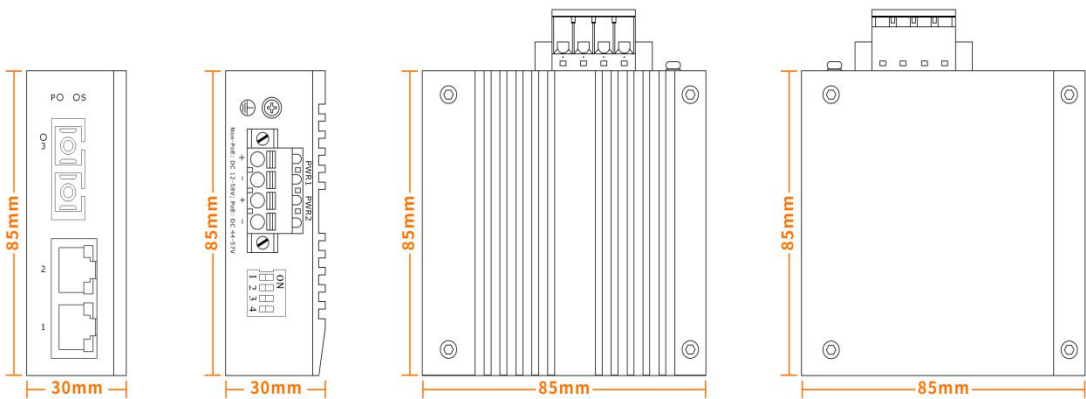| Network Topology	
Star topology	Support
Bus topology	Support

Tree Topology	Support
Mechanical structure	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	30*85*85mm
Weight	0.21 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

SFP model

SC/ST/FC model

Order information

Model	Description
LT-IMC30G-1GX2GT-E	10/100/1000Base-T to 1000Base-X unmanaged compact industrial media converter with 2*10/100/1000Base-T RJ45 ports and 1*100/1000Base-X SFP slot, DC12-58V input, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module;　Operation temperature: -40℃～+75℃
LT-IMC30G-1GX2GT-SC-E	10/100/1000Base-T to 1000Base-X unmanaged compact industrial media converter with 2*10/100/1000Base-T RJ45 ports and 1*100/1000Base-X SC port, DC12-58V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional;　Operation temperature: -40 ℃ ～ +75℃
LT-IMC30G-1GX2GT-FC-E	10/100/1000Base-T to 1000Base-X unmanaged compact industrial media converter with 2*10/100/1000Base-T RJ45 ports and 1*100/1000Base-X FC port, DC12-58V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional;　Operation temperature: -40 ℃ ～ +75℃
LT-IMC30G-1GX2GT-ST-E	10/100/1000Base-T to 1000Base-X unmanaged compact industrial media converter with 2*10/100/1000Base-T RJ45 ports and 1*100/1000Base-X ST port, DC12-58V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional;　Operation temperature: -40 ℃ ～ +75℃