## 10/100/1000Base-T to 100/1000Base-X

### **Compact size Industrial Media Converter**

### LT-IMC30G-E Series



#### Features:

- > 1\*10/100/1000Base-T RJ45 port, 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.LFP; 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  $^{\circ}$ C ~+75  $^{\circ}$ C

www.smartbyte-switch.com

#### Overview

The SmartByte LT-IMC30G-E series are unmanaged industrial grade media converter with 1-port 10/100/1000-T RJ45 and 1-port 100/1000Base-X fiber optical interfaces. They are featuring with LFP, 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-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 fan-less compact size 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

Model No.	LT-IMC30G-E			
Interface	Fiber port		Copper RJ45 port	
	1		1	
Ethernet	1*10/100/1000Base-T RJ45 1*100/1000Base-X SFP (SC/ST/FC optional)			
	IEEE 802.3 10Base-T Ethernet			
	IEEE 802.3u Fast Ethernet			
Standard	IEEE 802.3ab Gigabit Ethernet			
	IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet			
Dip Switch	1. LFP			
	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		

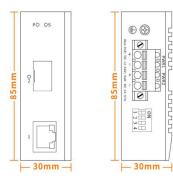
### Technical specification

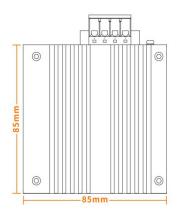
		Green indicators	Yellow indicators		
	1 (Copper port)	Off: ports link down	Off: port speed is 10/100M		
		On: ports link up	On: port speed is		
		Blinking: data on TX/RX	1000M		
		Off: ports link down			
	1 ( Fiber port) Green	On: ports link up			
		Blinking: data on TX/RX			
Power parameters					
Input voltage	12-58VDC, redundant power input				
Input current	0.2A Max				
Total power consumption	Full loading ≤2W				
Connector	Removable 4-pin terminal block				
Reverse polarity protection	Support				
Over-voltage protection	Support				
Switching features					
Switching capacity	2G				
Packet forwarding rate	2.97pps				
MAC address table	8K				
VLAN	4К				
Buffer	1M				
Forwarding delay	<5us				
Jumbo Frame	Support 10Kbytes				
MDX/MIDX	Support				
Watchdog	Support				
Network Topology	1				
Star topology	Support				

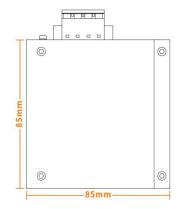
Bus topology	Support		
Tree Topology	Support		
Mechanical structure			
Case protection	IP40		
Installation method	Din-rail		
Dimension(W*D*H)mm	30*85*85mm		
Weight	0.2 kg		
Operating environment			
Operating temperature	-40°C∼+75°C		
Storage/transportation temperature	-40°C~+85°C		
Relative humidity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

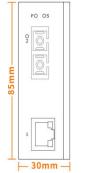
SFP model

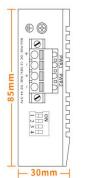


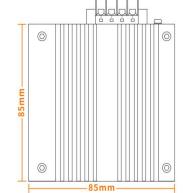


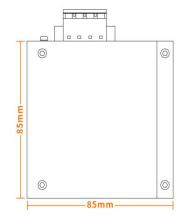


## SC/ST/FC model









### Order information

Model	Description
LT-IMC30G-E	10/100/1000Base-T to 1000Base-X unmanaged compact size industrial media converter with 1*10/100/1000Base-X RJ45 port 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: $-40^{\circ}C \sim +75^{\circ}C$
LT-IMC30G-SC-E	10/100/1000Base-T to 1000Base-X unmanaged compact size industrial media converter with 1*10/100/1000Base-X RJ45 port 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°C $\sim$ +75°C
LT-IMC30G-FC-E	10/100/1000Base-T to 1000Base-X unmanaged compact size industrial media converter with 1*10/100/1000Base-X RJ45 port 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 $^{\circ}C \sim$ +75 $^{\circ}C$
LT-IMC30G-ST-E	10/100/1000Base-T to 1000Base-X unmanaged compact size industrial media converter with 1*10/100/1000Base-X RJ45 port 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°C $\sim$ +75°C