

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 °C ~+75 °C

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

Technical specification

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)	
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	<ol style="list-style-type: none"> 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

	1 (Copper port)	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		
	1 (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 ≤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	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	0.2 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

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°C ~+75°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 ~+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°C ~+75°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 ~+75°C