

4*10/100/1000Base-T + 1*1000Base-X Industrial Ethernet Switch

LT-IS3005G-1GX4GT Series



Features:

- 4*10/100/1000M RJ45 ports, 1*1000Base-X SFP(/SC/ST/FC optional) fiber port
- DC 12~58V input, redundant power supply with polarity reverse/over-voltage protection
- Dip switch function: 1.Port isolation; 2. Flow control; 3. QoS; 4. Broadcast storm restrain
- Support 10K Bytes Jumbo frame
- Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design
- Operation temperature: -40 °C ~+75 °C

Overview

The SmartByte LT-IS3005G-1GX4GT series are unmanaged industrial grade Ethernet switch with 4-port 10/100/1000-T RJ45 and 1-port 1000Base-X fiber optical interfaces. They are featuring with port isolation, flow control, QoS(1-2 ports) and broadcast storm restrain function, which all can be configured by the Dip switch on the top panel.

LT-IS3005G-1GX4GT 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 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

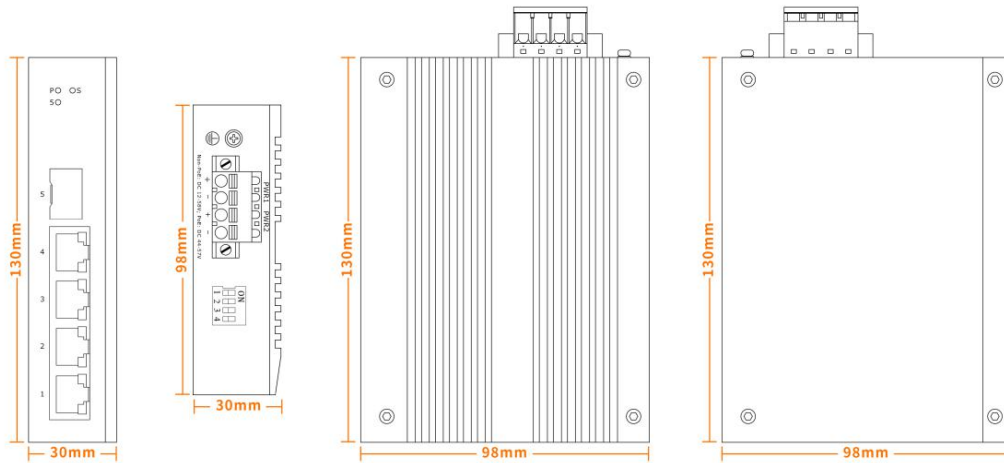
Model No.	LT-IS3005G-1GX4GT		
Interface	Fiber port	Copper RJ45 ports	
	1	4	
Ethernet	4*10/100/1000Base-T RJ45 1*1000Base-X SFP (SC/ST/FC optional)		
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet		
Dip Switch	<ol style="list-style-type: none"> 1. Port Isolation 2. Flow control 3. QoS(1-2 ports) 4. Broadcast storm restrain 		
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	
1-4(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	
	5 (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	0.5A Max		
Total power consumption	Full loading ≤5W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Support		
Over-voltage protection	Support		
Switching features			
Switching capacity	10G		
Packet forwarding rate	14.8 Mpps		
MAC address table	2K		
VLAN	4K		
Buffer	3M		
Forwarding delay	<5us		
Jumbo Frame	Support 10Kbytes		
MDX/MIDX	Support		
Watchdog	Support		
Network Topology			
Star topology	Support		
Bus topology	Support		

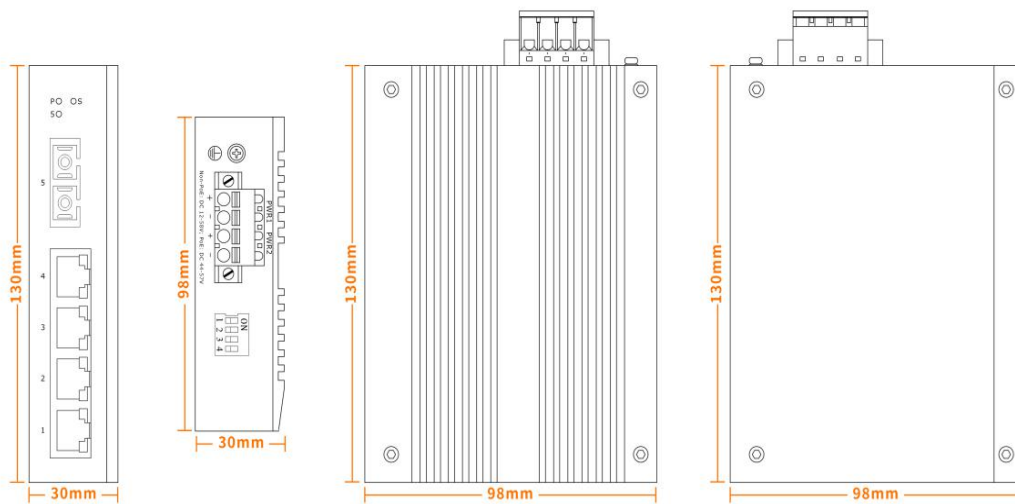
Tree Topology	Support
Mechanical structure	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	30*98*130mm
Weight	0.5 kg
Operating environment	
Operating temperature	-40°C~+75°C
Storage/transportation temperature	-40°C~+85°C
Relative humidity	5%~95% (non-condensing)
Industrial Standard	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-IS3005G-1GX4GT	10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 4*10/100/1000Base-T RJ45 ports and 1*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-IS3005G-1GX4GT-SC	10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 4*10/100/1000Base-T RJ45 ports and 1*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-IS3005G-1GX4GT-FC	10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 4*10/100/1000Base-T RJ45 ports and 1*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-IS3005G-1GX4GT-ST	10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 4*10/100/1000Base-T RJ45 ports and 1*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