

8*10/100/1000Base-T + 1*1000Base-X Industrial Ethernet Switch

LT-IS3009G-1GX8GT Series



Features:

- 8*10/100/1000Base-T 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-IS3009G-1GX8GT series are unmanaged industrial grade Ethernet switch with 8-port 10/100/1000-T RJ45 and 1-port 1000Base-X fiber optical interface. 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-IS3009G-1GX8GT 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 ~+75°C as well as high-level EMI/EMC capability and so on. It is 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

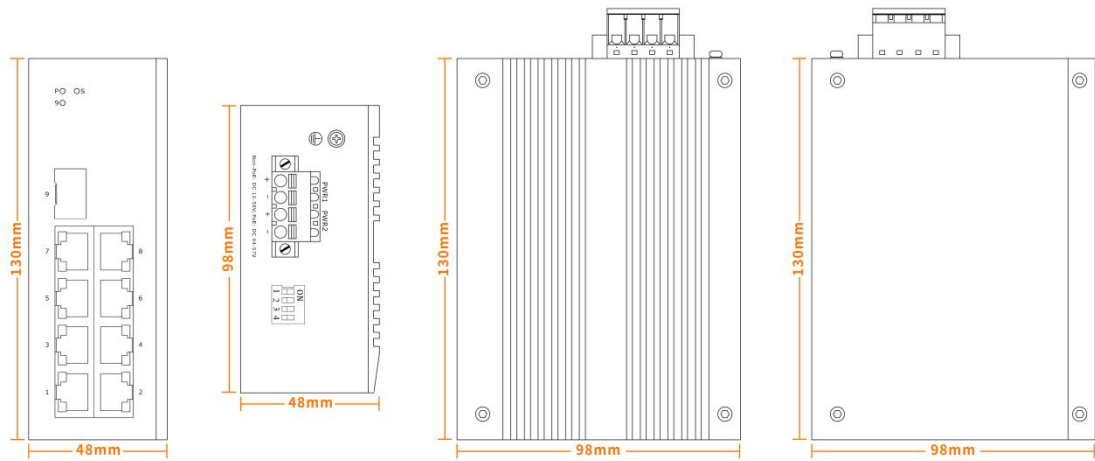
| | | | |
|-----------------------|--|--|--|
| Model No. | LT-IS3009G-1GX8GT | | |
| Interface | Fiber port | Copper RJ45 ports | |
| | 1 | 8 | |
| Ethernet | 8*10/100/1000Base-T RJ45 1*1000Base-X SFP (SC/ST/FC optional) | | |
| Standard | IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab 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 | |
| 1-8 (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 | | |
| | 9 (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 ≤6.5W | | | |
| Connector | Removable 4-pin terminal block | | | |
| Reverse polarity protection | Support | | | |
| Over-voltage protection | Support | | | |
| Switching features | | | | |
| Switching capacity | 18G | | | |
| Packet forwarding rate | 26.7 Mpps | | | |
| MAC address table | 16K | | | |
| VLAN | 4K | | | |
| Buffer | 2M | | | |
| Forwarding delay | <5us | | | |
| Jumbo Frame | Support 10Kbytes | | | |
| MDX/MIDX | Support | | | |
| Watchdog | Support | | | |
| Network Topology | | | | |
| Star topology | Support | | | |
| Bus topology | Support | | | |

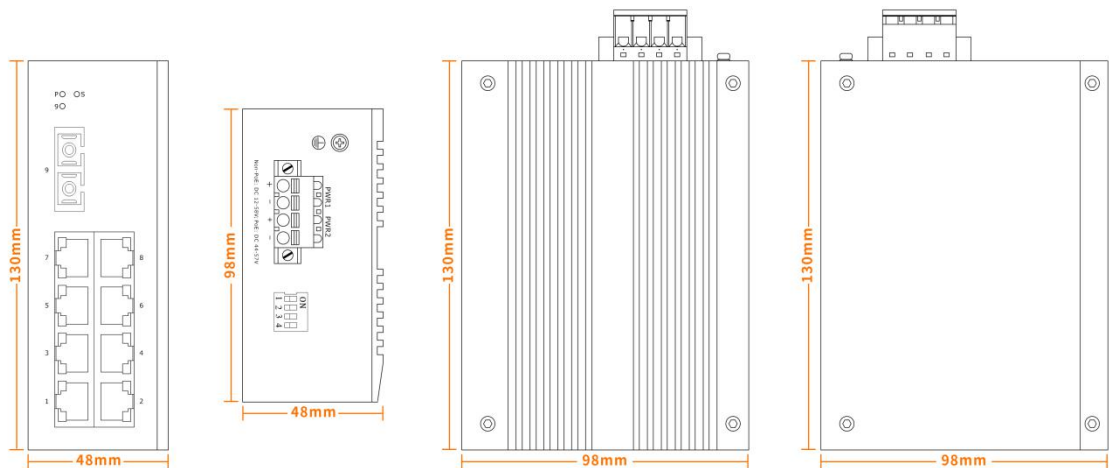
| | |
|------------------------------------|--|
| Tree Topology | Support |
| Mechanical structure | |
| Case protection | IP40 |
| Installation method | Din-rail |
| Dimension(W*D*H)mm | 48*98*130mm |
| Weight | 0.68kg |
| Operating environment | |
| Operating temperature | -40℃~+75℃ |
| Storage/transportation 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-IS3009G-1GX8GT | 10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 8*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-IS3009G-1GX8GT-SC | 10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 8*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-IS3009G-1GX8GT-FC | 10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 8*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-IS3009G-1GX8GT-ST | 10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 8*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 |