

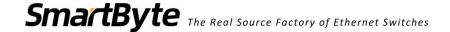
8*10/100/1000Base-T + 4*100/1000Base-X SFP+4*1G/2.5GBase-X SFP

LT-IS6316G-8GX8GT



Features:

- > 8*10/100/1000Base-T RJ45, 4*100/1000Base-X SFP, 4*1G/2.5G Base-X SFP
- Redundant power DC 12-58V input with polarity reverse/over-voltage/over-current protection
- Support one digital output for relay alarm(terminal block Pin 5/6)
- Layer 3 features: Support IPv4/IPv6 static routing, DHCP server
- Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP,MSTP/Port Mirroring/DHCP/Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP DDM/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time ≤20ms
- > Support 6KV 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-IS6316G-8GX8GT is the highly reliable managed industrial Ethernet switch with 8-port 10/100/1000-T RJ45, 4-port 100/1000Base-X SFP and 4-port 1G/2.5GBase-X SFP slots. It supports ERPS redundant network and the self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your back-up solution. It also supports IPv4/IPv6 static routing, DHCP server and robust Layer 2 management and secure function, which all making them ideal for large-scale industrial networks.

LT-IS6316G-8GX8GT is a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range power input 12-58VDC, redundant power design with polarity reverse/over-voltage/over-current 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. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions are harsh and critical.

Technical specification

| Model No. | LT-IS6316G-8GX8GT | |
|-----------------|--|-------------------|
| Interface | Fiber ports | Copper RJ45 ports |
| | 8 | 8 |
| Ethernet | 8*10/100/1000Base-T RJ45 4*1G/2.5GBase-X SFP (9-12 ports) 4*100/1000Base-X SFP (13- 16ports) | |
| Management port | 1*RJ45 Console port (115200,8,N,1) | |
| Alarm port | One digital output for relay alarm, alarm relay current carry ability: 1A@24VDC | |
| Standard | IEEE 802.3 10Base-T Ethernet | |
| | IEEE 802.3u 100Base-TX Ethernet | |
| | IEEE 802.3ab 1000Base-T Ethernet | |
| | IEEE 802.3z 1000Base-X Ethernet | |
| | IEEE802.3x Flow Control and Back Pressure | |
| | IEEE 802.1D Spanning Tree Protocol | |
| | IEEE 802.1w Rapid Spanning Tree Protocol | |
| | IEEE 802.1Q VLAN | |
| | ITU-T G.8032 ERPS | |

| | IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3ad LACP | | |
|--|---|-----------------------------------|--|
| LED Indicators | | | |
| P (Power indicator) | Off: the device is power off or failed | On: the device power on is normal | |
| S (System status indicator) | Blinking: device initialization | On: device on normal operation | |
| 1-8 (Copper ports indicators) Green | Off: ports link down | | |
| | On: ports link up | | |
| | Blinking: data on TX/RX | | |
| 1-8(Copper Speed indicators) | Off: port on 10/100M | | |
| Yellow | On: port on 1000M | | |
| | Off: ports link down | | |
| 9-16 (Fiber ports indicators) Green | On: ports link up | | |
| Green | Blinking: data on TX/RX | | |
| Power parameter | | | |
| Input voltage | 12-58V DC, redundant power input | | |
| Input current | 1.5A Max | | |
| Total power consumption | Full loading ≤18W | | |
| Connector | Removable 6-pin terminal block, Pin 5- | -6 for relay alarm | |
| Reverse polarity protection | Support | | |
| Over-voltage protection | Support | | |
| Over-current protection | Support | | |
| Layer 2 functions | | | |
| Port aggregation | Support GE port aggregation Support 2.5GE aggregation Support static aggregation Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group | | |
| Port features | Support IEEE802.3x flow control, Support interface counters, Support port isolation, | | |

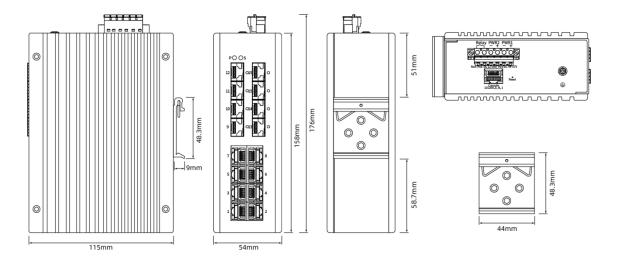
| | Port mirroring (One-to-One, Many-to-One) | |
|-----------------------|--|--|
| | Support loop detection(Port-based; VLAN-based) | |
| | Support broadcast storm suppression(broadcast; unknown multicast; | |
| | unknown unicast) | |
| | Support static Mac-address management | |
| Man address table | Support dynamic Mac-address Management | |
| Mac-address table | Support filtering Mac-address | |
| management | Support MAC limit based on port and VLAN | |
| | Support MAC flapping based on port and VLAN | |
| | Support access mode | |
| VLAN | Support trunk mode | |
| | Support hybrid mode | |
| | Mac Based VLAN | |
| VLAN classification | IP Based VLAN | |
| | Protocol Based VLAN | |
| | Normal mode | |
| GVRP | Fixed mode | |
| | Forbidden mode | |
| | Port-based QinQ | |
| QinQ | VLAN-based QinQ (VLAN-stacking; VLAN-mapping) | |
| | Flow-based QinQ | |
| LLDP | LLDP (Link Layer Discovery Protocol) | |
| | Support IEEE802.1D-STP | |
| | Support IEEE802.1W-RSTP | |
| Ring network protocol | Support IEEE802.1S-MSTP | |
| 3 | Support G.8032 ERPS protocol, single ring, sub Ring and major ring | |
| | Recovery time ≤20ms | |
| L2 Multicast | | |
| IGMP snooping | Support IGMP snooping | |
| Group address | Support group address | |
| Security functions | | |
| ACL | IP Standard ACL | |
| | MAC extend ACL | |
| | IP extend ACL | |
| | IPv6 ACL | |
| QoS | Support QoS Class, remarking | |
| QU3 | Support SP, WRR queue scheduling | |

| | Ingress port-based rate-limit |
|--------------------------------|---|
| | Egress port-based rate-limit |
| | Support policy-based QoS |
| | Port access control |
| 802.1x | Mac-address access control |
| | RADIUS server |
| Port-security | Port-security |
| IP source guard | IP Port/MAC binding |
| ARP-check | Support ARP-check and ARP packet filtering for illegal users |
| Access control | Support Telnet/SSH/HTTP/HTTPS user access control |
| Management & Maintenance | functions |
| User Management | Support password protection Support user authorization management |
| CNIAD | |
| SNMP | Supporting SNMP V1/V2C/V3 version |
| Mala Managana | Web Management |
| Web Management | Support HTTP V1.1 Support HTTPS |
| | |
| CLI management | Console/Telnet command line management |
| RMON | Support RMON(Remote Monitoring) alarm |
| Firmware upgrade | Firmware upgrade |
| | Ping/Tracerout |
| Fault Detection | Dying gasp |
| | Support optical transceiver DDM function |
| Cable detection | Support copper port cable detection |
| NTP | Network Time Protocol |
| Syslog/Debug | Syslog/Debug |
| -10100 | Syslog send to three servers |
| Configuration import/export | Support FTP/TFTP remote import/export |
| Dual partition management | Support dual partition switching |
| Application Protocol Functions | |
| | DHCP snooping trust port |
| DHCP Snooping | Support remote-id/circuit-id configuration |
| | DHCP option-82 |
| DHCP client | Support DHCP client |

| Telnet server | Support telnet server |
|------------------------|--|
| Telnet client | Support telnet client |
| SSH server | Support SSH server |
| TACACS | Support TACACS(the terminal access controller accesses the control system) |
| sflow | Support network traffic analysis |
| TFTP | Support TFTP Client |
| Layer 3 functions | |
| ARP | ARP table aging |
| DHCP server | |
| IPv4 / IPv6 | static routing |
| Switching features | |
| Switching capacity | 44Gbps |
| Packet forwarding rate | 65.4Mpps |
| MAC address table | 16K |
| VLAN | 4K |
| Buffer | 12Mbit |
| Forwarding delay | <5us |
| Jumbo Frame | Support 10Kbytes |
| MDX/MIDX | Support |
| Watchdog | Support |
| Mechanical structure | |
| Case protection | IP40 |
| Installation method | Din-rail |
| Dimension(W*D*H)mm | 54*115*158mm |
| Weight | 1.45 kg |
| Operating environment | |
| Operating temperature | -40℃~+75℃ |
| | |

| Storage/transportation temperature | -40℃~+85℃ |
|------------------------------------|--|
| Relative humidity | Operation humidity: 10%-90%RH |
| | Storage humidity: 5%-95%RH |
| Industrial Standard | |
| | Surge protection of power: IEC 61000-4-5 6KV/4KV (8/20us) |
| | Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us) |
| EMS | RS: IEC 61000-4-3 80 MHz-1 GHz: 10 V/m |
| | EFT: IEC 61000-4-4 4K/2K |
| | CS: IEC 61000-4-6 10V |
| | ESD: IEC 61000-4-2 Contact: 8K; Air: 15K |
| EMI | FCC Part 15B Class A |
| Shock | IEC 60068-2-27 |
| Free fall | IEC 60068-2-32 |
| Vibration | IEC 60068-2-6 |
| Certification | CCC/CE/UKCA/RoHS/REACH/FCC |
| MTBF | > 200,000 hours |
| Warranty | 5 years |

Structure diagram



Order information

| Model | Description |
|-------------------|---|
| LT-IS6316G-8GX8GT | L2+ Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports, 4*100/1000Base-X SFP and 4*1G/2.5GBase-X SFP slots, DC12-58V input, redundant dual power supply, Din-rail installation. Operation temperature: -40 $^{\circ}\text{C}$ ~+75 $^{\circ}\text{C}$ |