

16*100/1000Base-X SFP + 8*Gigabit Combo + 4*1G/2.5GBase-X SFP

Layer 2+ Managed Industrial Rack-mount Ethernet Switch

LT-IS6328G-20GX8GC



Features:

- 16*100/1000Base-X SFP, 8*1000Base Combo RJ45/SFP, 4*1G/2.5GBase-X SFP
- AC/DC redundant power supply with polarity reverse/over-voltage/over-current protection
- Support USB one key configuration and upgrading
- Support DI/DO/RS485/Modbus data
- Layer 3 feature: Support IPv4/IPv6 static routing
- Layer 2 features: VLAN; ERPS, STP/RSTP/MSTP; Link aggregation, IGMP snooping, port mirroring, QinQ, 802.1X, port isolation, RMON, NTP client, DHCP snooping/client, Ping/Tracert test, ACL, QoS and SFP DDM function
- Management and maintenance: IPv4 and IPv6 management; Support Web, SNMP, CLI, Telnet/SSH management method; Support user management, system log, configuration upload/download through web interface, firmware upgrade via HTTP/TFTP/USB
- Support G.8032 ERPS protocol, recovery time ≤20ms
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and rack-mount hardware design
- Operation temperature: -40 °C ~+ 80 °C

Overview

The SmartByte LT-IS6328G-20GX8GC is the highly reliable Layer 2+ managed industrial fiber switch with 16-port 100/1000Base-X SFP ,8-port 1000Base Combo RJ45/SFP and 4-port 1G/2.5GBase-X SFP. With full gigabit capability, it can provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. It supports DI/DO/RS485/Modbus data, G.8032 ERPS,MSTP/ RSTP/STP redundancy technologies and supports Layer 3 IPv4/IPv6 static routing functionality, which all making them ideal for large-scale industrial networks.

LT-IS6328G-20GX8GC is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range voltage input with redundant power AC、 DC or AC/DC selection, robust IP40 fan-less housing with rack-mount installation,wide operation temperature from -40°C to 80 °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-IS6328G-20GX8GC | | |
| Interface | 100/1000 Fiber ports | Gigabit Combo | 1G/2.5G fiber ports |
| | 16 | 8 | 4 |
| Ethernet | 16*100/1000Base-X SFP 8*COMBO SFP/RJ45 4*1000/2500Base-X SFP | | |
| Management port | 1*RJ45 Console port, 1*USB 2.0 | | |
| Data channel | 1 channel RS485 1 channel DI(digital input) 1 channel DO(digital output) | | |
| 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 | | |

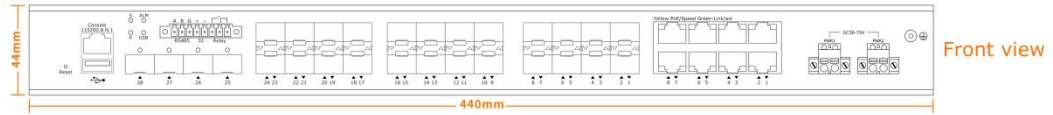
| | | |
|--|--|-----------------------------------|
| | ITU-T G.8032 ERPS IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3ad LACP | |
| LED Indicators | | |
| P (Power indicator) | Off: the device is power off or failed | On: the device power on is normal |
| S (System status indicator) | Blinking: device initialization | On: device on normal operation |
| USB (USB status indicator) | Off: USB flash drive not insert or not detected by device | |
| | On: USB flash drive is detected by device | |
| | Blinking: the device is reading and writing the data from USB flash drive | |
| ALM (Fault status indicator) Red | Off: Device on normal working state | On: Fault alarm |
| 1-8 (Copper ports indicators) Green | Off: ports link down | |
| | On: ports link up | |
| | Blinking: data on TX/RX | |
| 1-8 (Copper speed indicators) Yellow | Off: port speed is 10/100M | |
| | On: port speed is 1000M | |
| 9-28 (Fiber ports indicators) Green | Off: ports link down | |
| | On: ports link up | |
| | Blinking: data on TX/RX | |
| Power parameter | | |
| Input voltage | 36-75VDC 100~240VAC redundant power input | |
| Input current | 1A DC/AC input Max | |
| Total power consumption | Full loading ≤36W | |
| Connector | Removable 4-pin terminal block AC socket | |
| Reverse polarity protection | Support | |
| Over-voltage protection | Support | |
| Over-current protection | Support | |

| Layer 2 function | |
|-------------------------|--|
| Port aggregation | Support GE port aggregation Support 2.5GE aggregation Support static aggregation Support dynamic aggregation |
| Port features | Support IEEE802.3x flow control, Support port traffic statistics, Support port isolation Support network storm suppression based on port bandwidth percentage |
| VLAN | Support access mode Support trunk mode Support hybrid mode |
| VLAN Classification | Mac Based VLAN IP Based VLAN Protocol Based VLAN |
| QinQ | Port-based QinQ VLAN-based QinQ Flow-based QinQ |
| Port mirroring | Many to one port mirroring |
| Ring network protocol | Support STP、RSTP、MSTP Support G.8032 ERPS protocol, single ring, sub Ring and associated sub ring Recovery time ≤20ms |
| DHCP | Support DHCP Client Support DHCP Snooping |
| Multicast | IGMP V1,V2,V3 IGMP snooping |
| ACL | IP Standard ACL MAC extend ACL IP extend ACL |
| QoS | Support QoS Class, Remarking Support SP, WRR queue scheduling Ingress Port-based Rate-limit Egress Port-based Rate-limit Support Policy-based QoS |
| Security | Support Dot1x, port authentication, MAC authentication, RADIUS service Support port-security Support IP Source Guard, IP/Port/MAC binding |

| | |
|-----------------------------|---|
| | Support ARP-check and ARP packet filtering for illegal users Support port isolation |
| Management & maintenance | Support LLDP Support user management and login authentication Support SNMPV1/V2C/V3 Support web management, HTTP1.1, HTTPS Support Syslog and alarm grading Support RMON(Remote Monitoring) alarm Support NTP Support temperature monitoring Support Ping , TRACERT Support optical transceiver DDM function Support TFTP Client Support Telnet Server Support SSH Server Support IPv6 Management Support TFTP, web upgrading Support USB upgrading Support USB importing configuration |
| Layer 3 function | |
| ARP | ARP table aging |
| IPv4/IPv6 | Static routing |
| Switching features | |
| Switching capacity | 68Gbps |
| Packet forwarding rate | 101.1Mpps |
| MAC address table | 16K |
| VLAN | 4K |
| Buffer | 12M bit |
| Forwarding delay | <5us |
| Jumbo Frame | Support 10Kbytes |
| MDX/MIDX | Support |
| Watchdog | Support |
| Mechanical structure | |

| | |
|------------------------------------|--|
| Case protection | IP40 |
| Installation method | Rack mountable |
| Dimension(W*D*H)mm | 440*44*280mm |
| Weight | 5 kg |
| Operating environment | |
| Operating temperature | -40°C~+75°C |
| Storage/transportation temperature | -40°C~+85°C |
| Relative humidity | Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH |
| Industrial Standard | |
| EMS | Surge protection of power: IEC 61000-4-5 DC:6KV/6KV (8/20us), AC: 4K/2K Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us) RS: IEC 61000-4-3 80 MHz-1 GHz: 10 V/m EFT: IEC 61000-4-4 power 4K, signal 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/FCC/RoHS |
| Warranty | 5 years |

Structure diagram



Order information

| Model | Description |
|--------------------------|---|
| LT-IS6328G-20GX8GC-2AC | Layer 2+ managed industrial Ethernet switch with 16*100/1000Base-X SFP, 8*1G Combo RJ45/SFP ports and 4*1G/2.5GBase-X SFP. Dual AC 100-240V 50/60Hz input, rack mountable; Operating temperature: -40°C~+ 80 °C |
| LT-IS6328G-20GX8GC-AC/DC | Layer 2+ managed industrial Ethernet switch with 16*100/1000Base-X SFP, 8*1G Combo RJ45/SFP ports and 4*1G/2.5GBase-X SFP. AC 100-240V 50/60Hz and DC 36-75Vinput, rack mountable; Operating temperature: -40°C~+ 80 °C |
| LT-IS6328G-20GX8GC-2DC | Layer 2+ managed industrial Ethernet switch with 16*100/1000Base-X SFP, 8*1G Combo RJ45/SFP ports and 4*1G/2.5GBase-X SFP. Dual DC 36-75V input , rack mountable; Operating temperature: -40°C~+ 80 °C |