

**24\*10/100/1000Base-T + 4\*1G/2.5/10GBase-X SFP+**

**Layer 2+ Managed Industrial Rack-mount Ethernet Switch**

**LT-IS6328XG-4XS24GT-U**



**Features:**

- 24\*10/100/1000Base-T, 4\*1G/2.5G/10G Base-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-IS6328XG-4XS24GT-U is the highly reliable Layer 2+ managed industrial Ethernet switch with 24-port 10/100/1000Base-T RJ45 and 4-port 1G/2.5G/10GBase-X SFP+. With full gigabit downlink and 10G uplink 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, Layer 3 IPv4/IPv6 static routing features and powerful Layer 2 management and secure function, which all making them ideal for large-scale industrial networks.

LT-IS6328XG-4XS24GT-U 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 design 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

|                        |                                                                                                                                                                                                                                                                                                          |                   |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Model No.</b>       | LT-IS6328XG-4XS24GT-U                                                                                                                                                                                                                                                                                    |                   |
| <b>Interface</b>       | Fiber ports                                                                                                                                                                                                                                                                                              | Copper RJ45 ports |
|                        | 4                                                                                                                                                                                                                                                                                                        | 24                |
| <b>Ethernet</b>        | 24*10/100/1000Base-T RJ45<br>4*1G/2.5G/10GBase-X SFP                                                                                                                                                                                                                                                     |                   |
| <b>Management port</b> | 1*RJ45 Console port, 1*USB 2.0 for configuration and firmware update                                                                                                                                                                                                                                     |                   |
| <b>Data channel</b>    | 1 channel RS485<br>1 channel DI(digital input)<br>1 channel DO(digital output)                                                                                                                                                                                                                           |                   |
| <b>Standard</b>        | IEEE 802.3 10Base-T Ethernet<br>IEEE 802.3u 100Base-TX Ethernet<br>IEEE 802.3ab 1000Base-T Ethernet<br>IEEE 802.3z 1000Base-X Ethernet<br>IEEE 802.3ae 10GBase-X Ethernet<br>IEEE802.3x Flow Control and Back Pressure<br>IEEE 802.1D Spanning Tree Protocol<br>IEEE 802.1w Rapid Spanning Tree Protocol |                   |

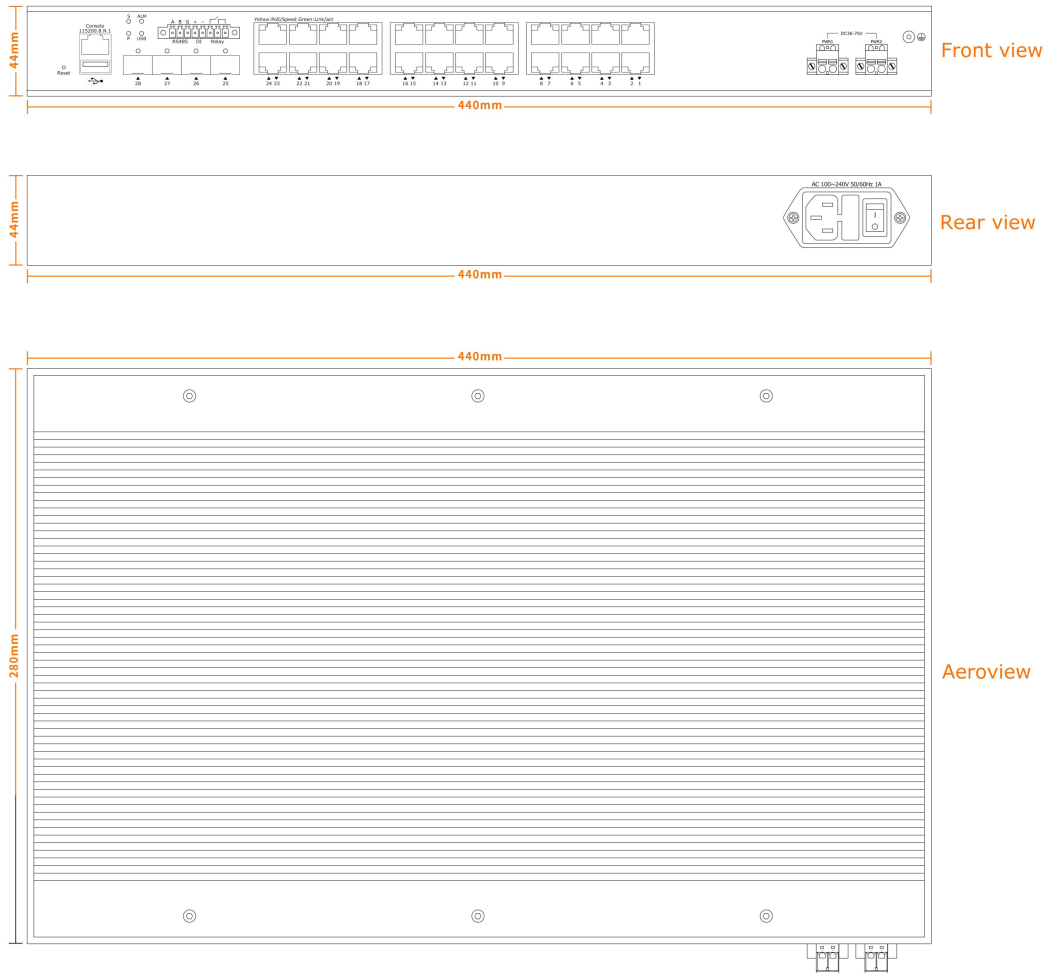
|                                                     |                                                                                                                                    |                                   |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|                                                     | IEEE 802.1Q VLAN<br>ITU-T G.8032 ERPS<br>IEEE 802.1X Port Authentication Network Control<br>IEEE 802.1ab LLDP<br>IEEE 802.3ad LACP |                                   |
| <b>LED Indicators</b>                               |                                                                                                                                    |                                   |
| <b>P</b> (Power indicator)                          | Off: the device is power off or failed                                                                                             | On: the device power on is normal |
| <b>S</b> (System status indicator)                  | Blinking: device initialization                                                                                                    | On: device on normal operation    |
| <b>USB</b> (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                                                          |                                   |
| <b>ALM</b> (Fault status indicator)<br><b>Red</b>   | Off: Device on normal working state                                                                                                | On: Fault alarm                   |
| <b>1-24</b> (Copper ports indicators) <b>Green</b>  | Off: ports link down                                                                                                               |                                   |
|                                                     | On: ports link up                                                                                                                  |                                   |
|                                                     | Blinking: data on TX/RX                                                                                                            |                                   |
| <b>1-24</b> (Copper speed indicators) <b>Yellow</b> | Off: ports on 10/100M                                                                                                              |                                   |
|                                                     | On: ports on 1000M                                                                                                                 |                                   |
| <b>25-28</b> (Fiber ports indicators) <b>Green</b>  | Off: ports link down                                                                                                               |                                   |
|                                                     | On: ports link up                                                                                                                  |                                   |
|                                                     | Blinking: data on TX/RX                                                                                                            |                                   |
| <b>Power parameter</b>                              |                                                                                                                                    |                                   |
| Input voltage                                       | 36-75VDC<br>100~240VAC<br>redundant power input                                                                                    |                                   |
| Input current                                       | 1A DC/AC input Max                                                                                                                 |                                   |
| Total power consumption                             | Full loading ≤32W                                                                                                                  |                                   |
| Connector                                           | Removable 2-pin terminal block                                                                                                     |                                   |
| Reverse polarity protection                         | Support                                                                                                                            |                                   |
| Over-voltage protection                             | Support                                                                                                                            |                                   |

|                         |                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Over-current protection | Support                                                                                                                                                                |
| <b>Layer 2 function</b> |                                                                                                                                                                        |
| Port aggregation        | Support GE port aggregation<br>Support 2.5GE aggregation<br>Support 10GE aggregation<br>Support static aggregation<br>Support dynamic aggregation                      |
| Port features           | Support IEEE802.3x flow control,<br>Support port traffic statistics,<br>Support port isolation<br>Support network storm suppression based on port bandwidth percentage |
| VLAN                    | Support access mode<br>Support trunk mode<br>Support hybrid mode                                                                                                       |
| VLAN Classification     | Mac Based VLAN<br>IP Based VLAN<br>Protocol Based VLAN                                                                                                                 |
| QinQ                    | Port-based QinQ<br>VLAN-based QinQ<br>Flow-based QinQ                                                                                                                  |
| Port mirroring          | Many to one port mirroring                                                                                                                                             |
| Ring network protocol   | Support STP、RSTP、MSTP<br>Support G.8032 ERPS protocol, single ring, sub Ring and associated sub ring<br>Recovery time ≤20ms                                            |
| DHCP                    | Support DHCP Client<br>Support DHCP Snooping                                                                                                                           |
| Multicast               | IGMP V1,V2,V3<br>IGMP snooping                                                                                                                                         |
| ACL                     | IP Standard ACL<br>MAC extend ACL<br>IP extend ACL                                                                                                                     |
| QoS                     | Support QoS Class, Remarking<br>Support SP, WRR queue scheduling<br>Ingress Port-based Rate-limit<br>Egress Port-based Rate-limit<br>Support Policy-based QoS          |
| Security                | Support Dot1x, port authentication, MAC authentication, RADIUS service                                                                                                 |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <p>Support port-security</p> <p>Support IP Source Guard, IP/Port/MAC binding</p> <p>Support ARP-check and ARP packet filtering for illegal users</p> <p>Support port isolation</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Management & maintenance  | <p>Support LLDP</p> <p>Support user management and login authentication</p> <p>Support SNMPV1/V2C/V3</p> <p>Support web management, HTTP1.1, HTTPS</p> <p>Support Syslog and alarm grading</p> <p>Support RMON(Remote Monitoring) alarm</p> <p>Support NTP</p> <p>Support temperature monitoring</p> <p>Support Ping , TRACERT</p> <p>Support optical transceiver DDM function</p> <p>Support TFTP Client</p> <p>Support Telnet Server</p> <p>Support SSH Server</p> <p>Support IPv6 Management</p> <p>Support TFTP, web upgrading</p> <p>Support USB upgrading</p> <p>Support USB importing configuration</p> |
| <b>Layer 3 function</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ARP                       | ARP table aging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| IPv4 / IPv6               | Static routing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Switching features</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Switching capacity        | 128Gbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Packet forwarding rate    | 190.4Mpps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| MAC address table         | 16K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| VLAN                      | 4K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Buffer                    | 12M bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Forwarding delay          | <5us                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Jumbo Frame               | Support 10Kbytes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| MDX/MIDX                  | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                                    |                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Watchdog                           | Support                                                                                                                                                                                                                                                                                                                  |
| <b>Mechanical structure</b>        |                                                                                                                                                                                                                                                                                                                          |
| Case protection                    | IP40                                                                                                                                                                                                                                                                                                                     |
| Installation method                | Rack mountable                                                                                                                                                                                                                                                                                                           |
| Dimension(W*D*H)mm                 | 440*44*280mm                                                                                                                                                                                                                                                                                                             |
| Weight                             | 5.2 kg                                                                                                                                                                                                                                                                                                                   |
| <b>Operating environment</b>       |                                                                                                                                                                                                                                                                                                                          |
| Operating temperature              | -40℃~+ 80℃                                                                                                                                                                                                                                                                                                               |
| Storage/transportation temperature | -40℃~+ 85℃                                                                                                                                                                                                                                                                                                               |
| Relative humidity                  | Operation humidity: 10%-90%RH<br>Storage humidity: 5%-95%RH                                                                                                                                                                                                                                                              |
| <b>Industrial Standard</b>         |                                                                                                                                                                                                                                                                                                                          |
| EMS                                | Surge protection of power: IEC 61000-4-5 DC:6KV/6KV (8/20us), AC: 4K/2K<br>Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us)<br><br>RS: IEC 61000-4-3 80 MHz-1 GHz: 10 V/m<br><br>EFT: IEC 61000-4-4 power 4K, signal 2K<br><br>CS: IEC 61000-4-6 10V<br><br>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                                                                                                                                                                                                                                                                                                            |
| <b>Certification</b>               | CCC/CE/FCC/RoHS                                                                                                                                                                                                                                                                                                          |
| <b>Warranty</b>                    | 5 years                                                                                                                                                                                                                                                                                                                  |

## Structure diagram



### Order information

| Model                       | Description                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LT-IS6328XG-4XS24GT-U-2AC   | Layer 2+ managed industrial Ethernet switch with 4*1G/2.5G/10GBase-X SFP ports , 24*10/100/1000Base-T RJ45 ports. Dual AC 100-240V 50/60Hz input, rack mountable; Operation temperature -40°C to 80 °C          |
| LT-IS6328XG-4XS24GT-U-AC/DC | Layer 2+ managed industrial Ethernet switch with 4*1G/2.5G/10GBase-X SFP ports , 24*10/100/1000Base-T RJ45 ports. AC 100-240V 50/60Hz and DC 36-75V input, rack mountable; Operation temperature -40°C to 80 °C |
| LT-IS6328XG-4XS24GT-U-2DC   | Layer 2+ managed industrial Ethernet switch with 4*1G/2.5G/10GBase-X SFP ports , 24*10/100/1000Base-T RJ45 ports. Dual DC 36-75V input , rack mountable; Operation temperature -40°C to 80 °C                   |