

**16\*100/1000Base-X + 8\*Gigabit Combo SFP/RJ45 + 4\*1G/2.5GBase-X SFP**

## **Layer 2 Managed Fiber Switch**

**LT-S8228G-20GX8GC**

### **Overview**

SmartByte LT-S8228G-20GX8GC series are Layer 2 full gigabit managed switch, which provides high-density performance, powerful Layer 2 management with 68Gbps switching capacity. The LT-S8228G-20GX8GC provides comprehensive end to end QoS as well as flexible and rich management , security settings, which can meet the high speed, secure and smart requirement for small and medium-size enterprise networks based on cost effective price. The powerful network security features also make the LT-S8228G-20GX8GC performs effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications.

### **Picture**



## Features

- 20\*1G/2.5G SFP ports + 8\*1G SFP/RJ45 COMBO ports , 1\*RJ45 console port and 1\* USB port for switch basic management and setup
- Port aggregation: Supports GE ports, 2.5GE port aggregation, static and dynamic aggregation
- VLAN : Supports access, trunk , hybrid mode and VLAN classification, including the Mac based VLAN, IP based VLAN and protocol based VLAN
- QinQ: Supports port-based, VLAN-based and flow-based QinQ
- Port Mirroring: Many to one port mirroring
- Layer 2 ring network protocol: Supports STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring
- Multicast: Supports IGMP snooping
- QoS: QoS class, remarking, Supports SP, WRR queue scheduling, Ingress/Egress port-based rate-limit and policy-based QoS
- Security: Support Dot1x, port authentication, mac authentication, RADIUS service; Support port-security, ip source guard, IP/Port/MAC binding, arp-check and ARP packet filtering for illegal users and port isolation
- Management : Supports LLDP, user management and login authentication; SNMPV1/V2C/V3; web management, HTTP1.1, HTTPS; Syslog and alarm grading ; RMON (Remote Monitoring) alarm, event and history record; NTP, temperature monitoring; Ping、Tracert and optical transceiver DDM function; Supports TFTP Client, Telnet Server, SSH Server and IPv6 Management
- Firmware update, configure backup/restore through Web GUI, FTP and TFTP

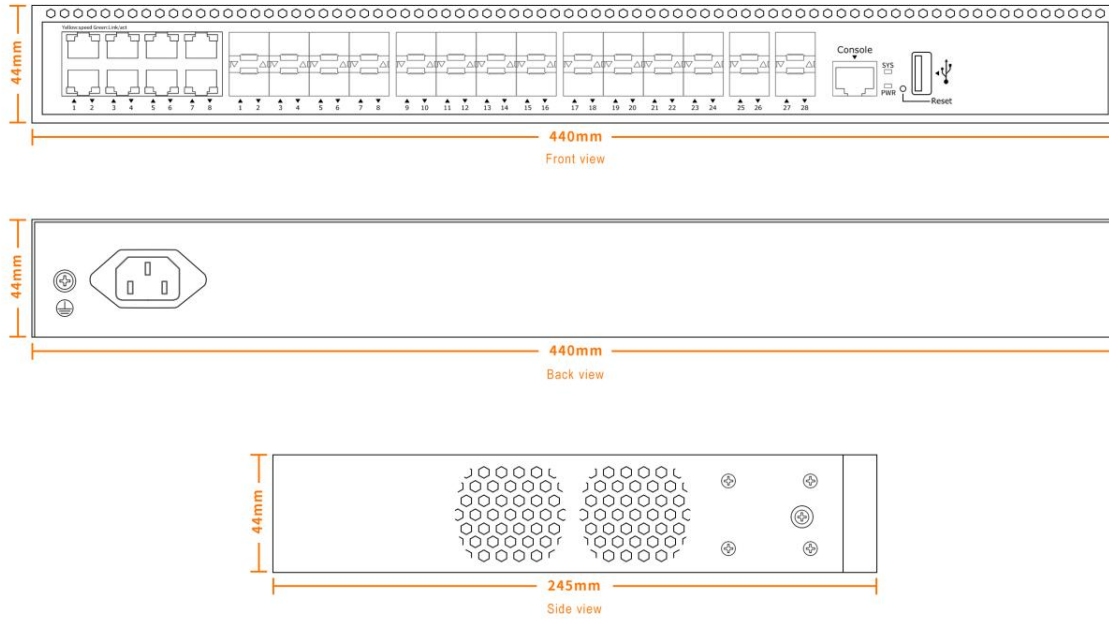
## Technical specification

|                                      |  |
|--------------------------------------|--|
| <b>Model</b>                         | LT-S8228G-20GX8GC  |
| <b>Fixed ports</b>                   | 20*1G/2.5G SFP slots, 8*1G SFP/RJ45 Combo ports  |
| <b>Management port</b>               | 1*RJ45 Console, 1* USB 2.0 port  |
| <b>Switching capacity</b>            | 68 Gbps  |
| <b>Packet forwarding rate</b>        | 101.1Mpps  |
| <b>MAC address table</b>             | 16K  |
| <b>Buffer</b>                        | 12M bit  |
| <b>Port aggregation</b>              | Support GE port, 2.5GE aggregation<br>Support static and dynamic aggregation   |
| <b>Port features</b>                 | Support IEEE802.3x flow control, Port traffic statistics, port isolation<br>Support network storm suppression based on port bandwidth percentage |
| <b>VLAN</b>                          | Support access, trunk and hybrid mode  |
| <b>VLAN Classification</b>           | Mac Based VLAN<br>IP Based VLAN<br>Protocol Based VLAN   |
| <b>QinQ</b>                          | Basic QinQ (Port-based QinQ)<br>Flexible Q in Q(VLAN-based QinQ)<br>QinQ(Flow-based QinQ)  |
| <b>Port mirroring</b>                | Many to one (Port Mirroring)   |
| <b>Layer 2 ring network protocol</b> | Support STP、RSTP、MSTP<br>Support G.8032 ERPS protocol, single ring, sub ring and other ring  |
| <b>DHCP</b>                          | DHCP Client<br>DHCP Snooping   |
| <b>Multicast</b>                     | IGMP snooping  |

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|--|--|
| <p><b>ACL</b></p>                        | <p>IP Standard ACL<br/>MAC extend ACL<br/>IP extend ACL</p>  |
| <p><b>QoS</b></p>                        | <p>QoS Class, Remarking<br/>Support SP, WRR queue scheduling<br/>Ingress Port-based Rate-limit<br/>Egress Port-based Rate-limit<br/>Policy-based QoS</p>   |
| <p><b>Security</b></p>                   | <p>Support Dot1x, port authentication, mac authentication, RADIUS service<br/>Support port-security<br/>Support ip source guard, IP/Port/MAC binding<br/>Support arp-check and ARP packet filtering for illegal users<br/>Support port isolation</p>   |
| <p><b>Management and maintenance</b></p> | <p>Support LLDP<br/>Support user management and login authentication<br/>Support SNMPV1/V2C/V3<br/>Support web management, HTTP1.1, HTTPS<br/>Support Syslog and alarm grading<br/>Support RMON (Remote Monitoring) alarm, event and history record<br/>Support NTP<br/>Support temperature monitoring<br/>Support Ping、Tracert<br/>Support optical transceiver DDM function<br/>Support TFTP Client<br/>Support Telnet Server<br/>Support SSH Server<br/>Support IPv6 Management<br/>Support FTP, TFTP, WEB upgrading</p> |
| <p><b>Dimension(mm)<br/>(W*D*H)</b></p>  | <p>440*245*44mm</p>  |

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|--|--|
| <b>Power supply</b>                    | VAC input<br>Rated voltage range: 100-240V<br>Frequency: 50/60Hz |
| <b>Fan</b>                             | Support fan speed control  |
| <b>Consumption</b>                     | ≤40W   |
| <b>Power surge protection</b>          | 6KV, IEC 61000-4-5 Level X (8/20us)                              |
| <b>Ethernet ports surge protection</b> | 4KV, IEC 61000-4-5 Level 4 (10/700us)                            |
| <b>Working temperature</b>             | 0°C-50°C   |
| <b>Humidity</b>                        | Working humidity: 10%-90%RH<br>Storage humidity: 5%-95%RH        |

## Structure diagram



## Order information

| Model             | Description  |
|-------------------|--|
| LT-S8228G-20GX8GC | Layer 2 managed Ethernet switch with 20*1G/2.5G SFP slots and 8*1G SFP/RJ45 Combo ports, AC 100-240V 50/60Hz |