# 16*10/100/1000Base-T+8*1G SFP/RJ45 Combo + 4*1G/2.5G SFP

# Layer 2+ Managed PoE Switch

# LT-S8328GP-4GX16GT8GC

## Overview:

SmartByte LT-S8328GP-4GX16GT8GC is the Layer 2+ full gigabit managed switch, which provide high-density performance, Layer 3 static routing with 68Gbps switching capacity. The LT-S8328GP-4GX16GT8GC 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-S8328GP-4GX16GT8GC perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications. With total power consumption up to **440W**(850W optional)**,** It offers a rack-mountable, affordable, safe and reliable power solution for SMBs deploying Power over Ethernet networks, or requiring enhanced data security and network traffic management

## Picture

## Features

➤ 4*1G/2.5G SFP ports，16*10/100/1000M RJ45 PoE ports，8*1G SFP/RJ45 Combo ports, 1*RJ45 console interface for switch basic management and setup

➤ Complies with IEEE 802.3at, IEEE802.3af standard. Max output power consumption per port can reach 30W(PoE+)

➤ Smart and standard PoE chipset to detect the PD equipments automatically, never burn the PD equipments

➤ Layer 3 features: Supports IPv4/IPv6 static routing, DHCP server

➤ Port aggregation: Supports GE ports, 2.5GE port aggregation, static and dynamic aggregation

➤ VLAN : Supports access, truck , 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/Engress 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; PoE management

➤ Firmware update, configure backup/restore through Web GUI, FTP and TFTP

## Technical specification

| Model No. | LT-S8328GP-4GX16GT8GC | | |
|---|---|---|---|
| **Interface** | Fiber ports | Copper RJ45 ports | Gigabit Combo |
| | 4 | 16 | 8 |
| **Ethernet** | 16*10/100/1000Base-T RJ45 PoE<br>8*COMBO SFP/RJ45<br>4*1000/2500Base-X SFP | | |
| **Management port** | 1*RJ45 Console port (115200,8,N,1) , 1*USB 2.0 for configuration and firmware update | | |
| **Standard** | 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>IEEE802.3x Flow Control and Back Pressure<br>IEEE 802.1D Spanning Tree Protocol<br>IEEE 802.1w Rapid Spanning Tree Protocol<br>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<br>IEEE 802.3af<br>IEEE 802.3at | | |
| **LED Indicators** | | | |
| **PWR** (Power indicator) | Off: the device is power off or failed | On: the device power on is normal | |
| **SYS (**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 | | |
| **1-16** (Copper ports indicators) Green | Off: ports link down | | |
| | On: ports link up | | |
| | Blinking: data on TX/RX | | |
| **1-16**(PoE status indicators) | Off: PoE not working | | |

| Yellow | On: PoE working |
|---|---|
| **17-24** (Copper ports indicators) Green | Off: ports link down |
| | On: ports link up |
| | Blinking: data on TX/RX |
| **17-24**(PoE status indicators) Yellow | Off: PoE not working |
| | On: PoE working |
| **17-24**(Fiber ports indicators) Green | Off: ports link down |
| | On: ports link up |
| | Blinking: data on TX/RX |
| **25-28**(Fiber ports indicators) Green | Off: ports link down |
| | On: ports link up |
| | Blinking: data on TX/RX |
| **Power parameter** | |
| Input voltage | AC 100-240V |
| Total power consumption | Full loading ≤ 440W （850W optional） |
| Over-current protection | Support |
| **Layer 2 functions** | |
| Port aggregation | Support GE port aggregation<br>Support 2.5GE aggregation<br>Support static aggregation<br>Support LACP dynamic aggregation<br>Up to 64 aggregation groups and up to 8 ports per group |
| Port features | Support IEEE802.3x flow control<br>Support interface counters<br>Support port isolation<br>Port mirroring ( One-to-One, Many-to-One)<br>Support loop detection(Port-based; VLAN-based)<br>Support broadcast storm suppression(broadcast; unknown multicast; unknown unicast) |
| Mac-address table management | Support static Mac-address management<br>Support dynamic Mac-address Management<br>Support filtering Mac-address |

| | Support MAC limit based on port and VLAN |
|---|---|
| | Support MAC flapping based on port and VLAN |
| VLAN | Support access mode |
| | Support trunk mode |
| | Support hybrid mode |
| VLAN classification | Mac Based VLAN |
| | IP Based VLAN |
| | Protocol Based VLAN |
| GVRP | Normal mode |
| | Fixed mode |
| | Forbidden mode |
| QinQ | Port-based QinQ |
| | VLAN-based QinQ (VLAN-stacking; VLAN-mapping) |
| | Flow-based QinQ |
| LLDP | LLDP (Link Layer Discovery Protocol) |
| Ring network protocol | Support IEEE802.1D-STP |
| | Support IEEE802.1W-RSTP |
| | Support IEEE802.1S-MSTP |
| | 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 |
| | Support SP, WRR queue scheduling |
| | Ingress port-based rate-limit |
| | Egress port-based rate-limit |
| | Support policy-based QoS |
| 802.1x | Port access control |
| | 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<br>Support user authorization management |
| SNMP | Supporting SNMP V1/V2C/V3 version |
| Web Management | Web Management<br>Support HTTP V1.1<br>Support HTTPS |
| CLI management | Console/Telnet command line management |
| RMON | Support RMON(Remote Monitoring) alarm |
| Firmware upgrade | Firmware upgrade |
| Fault Detection | Ping/Tracerout<br>Support optical transceiver DDM function |
| Cable detection | Support copper port cable detection |
| PoE management | Support 802.3af/802.3at |
| | Support PD watchdog |
| | Support PoE priority management |
| | Support Max PoE power configuration for each port |
| | Support alarm waterline configuration |
| | Support reserved power configuration |
| NTP | Network Time Protocol |
| Syslog/Debug | Syslog/Debug<br>Syslog send to three servers |
| Configuration import/export | Support FTP/TFTP remote import/export<br>Support USB import/export |
| Dual partition management | Support dual partition switching |
| **Application Protocol Functions** | |
| DHCP Snooping | DHCP snooping trust port<br>Support remote-id/circuit-id configuration<br>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 | 68Gbps |
| Packet forwarding rate | 101Mpps |
| MAC address table | 16K |
| VLAN | 4K |
| Buffer | 12Mbit |
| Forwarding delay | <5us |
| Jumbo Frame | Support 10Kbytes |
| MDX/MIDX | Support |
| Watchdog | Support |
| **Mechanical structure** | |
| Installation method | Desktop; Rack-mount |
| Dimension(W*D*H)mm | 440*245*44mm |
| Weight | 4.1kg |
| **Operating environment** | |
| Operating temperature | -0℃~+50℃ |
| Storage/transportation temperature | -10℃~+70℃ |

| Relative humidity | Operation humidity: 10%-90%RH <br> Storage humidity: 5%-95%RH |
|---|---|
| **Certification** | CCC/CE/UKCA/RoHS/REACH/FCC |
| **MTBF** | > 100,000 hours |

## Structure diagram



Front view

Back view

Side view
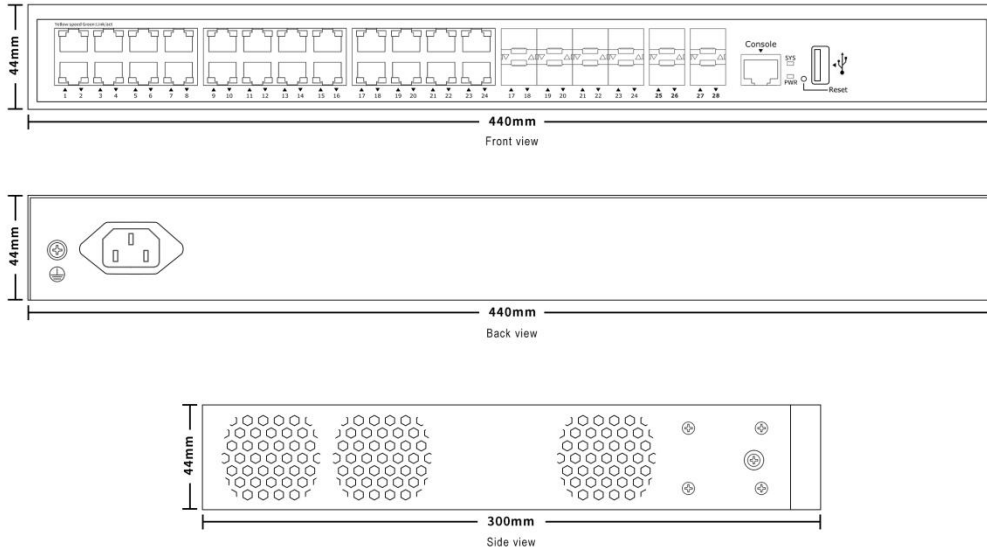
## Order information

| Model | Description |
|---|---|
| LT-S8328GP-4GX16GT8GC | Layer 2+ managed PoE switch with 4*1G/2.5G SFP slots <br><br> +16*10/100/1000M RJ45 PoE ports + 8*1G SFP/RJ45 Combo ports，AC <br><br> 100-240V 50/60Hz, total power consumption 440W, 850W optional |