

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

Layer 2+ Managed Ethernet Switch

LT-S8312G-4GX8GT

Overview

SmartByte LT-S8312G-4GX8GT is a Layer 2+ full gigabit managed switch, which features 8-port 10/100/1000Base-T RJ45 and 4*1G/2.5G SFP ports. It supports Layer 3 static routing with a high-performance switching architecture and offers wire-speed transportation capability for delivering a cost effective Gigabit Ethernet solution to meet the converged applications for enterprise customer's networks. More and more corporations are adapting new IT technologies over the network such as voice over IP, video conference to improve productivity and save operation expenditure. The LT-S8312G-4GX8GT series provide 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.

Picture



Features

- 4*1G/2.5G SFP slots uplink, 8*10/100/1000M RJ45 ports downlink, 1*RJ45 console port for switch basic management and setup
- 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, 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

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| Model No. | LT-S8312G-4GX8GT | |
| Interface | Fiber ports | Copper RJ45 ports |
| | 4 | 8 |
| Ethernet | 8*10/100/1000Base-T RJ45 4*1000/2500Base-X SFP | |
| Management port | 1*RJ45 Console port (115200,8,N,1) | |
| 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) Yellow | Off: ports on 10/100M | |
| | On: ports on 1000M | |
| 9-12 (Fiber ports indicators) Green | Off: ports link down | |
| | On: ports link up | |
| | Blinking: data on TX/RX | |
| Power parameter | | |

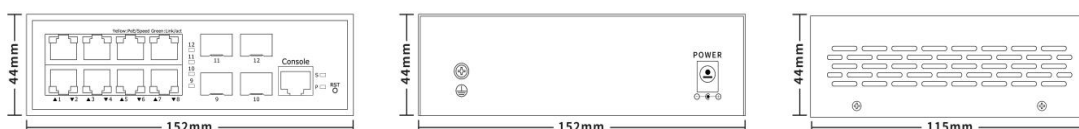
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| Input voltage | DC 5-16V |
| Total power consumption | Full loading ≤10W |
| Over-current protection | Support |
| Layer 2 functions | |
| Port aggregation | Support GE port aggregation Support 2.5GE aggregation Support static aggregation Support 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) |
| Mac-address table management | Support static Mac-address management Support dynamic Mac-address Management 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 |

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| | Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time ≤ 20 ms |
| 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 Support user authorization management |
| SNMP | Supporting SNMP V1/V2C/V3 version |
| 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 |
| Fault Detection | Ping/Tracerout Support optical transceiver DDM function |

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| Cable detection | Support copper port cable detection |
| NTP | Network Time Protocol |
| Syslog/Debug | Syslog/Debug 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 | DHCP snooping trust port 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 | 36Gbps |
| Packet forwarding rate | 53.5Mpps |
| MAC address table | 16K |
| VLAN | 4K |
| Buffer | 12Mbit |
| Forwarding delay | <5us |
| Jumbo Frame | Support 10Kbytes |

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| MDX/MIDX | Support |
| Watchdog | Support |
| Mechanical structure | |
| Installation method | Desktop; Rack-mount optional |
| Dimension(W*D*H)mm | 152*115*44mm |
| Weight | 0.66kg |
| Operating environment | |
| Operating temperature | 0°C~+50°C |
| Storage/transportation temperature | -10°C~+70°C |
| Relative humidity | Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH |
| Certification | CCC/CE/UKCA/RoHS/REACH/FCC |
| MTBF | > 100,000 hours |

Structure diagram



Order information

| Model | Description |
|------------------|--|
| LT-S8312G-4GX8GT | Layer 2+ managed Ethernet switch with 4*1G/2.5G SFP slots + 8*10/100/1000M RJ45 ports , DC 5-16V |