48*100/1000M SFP + 4*1G/2.5G/10G SFP+

Layer 3 Managed Full Fiber Switch

LT-S8552XG-4XS48GX

Overview

SmartByte LT-S8552XG-4XS48GX is a Layer 3 Managed full fiber Switch that provides high-density performance, Layer 3 static and dynamic routing, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First). With 352 Gbps switching capacity and 4 *1G/2.5G/10Gbps flexible and high performance uplink capability . The LT-S8552XG-4XS48GX 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 WRR (Weighted Round Robin) and network security features also make the LT-S8552XG-4XS48GX perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications.
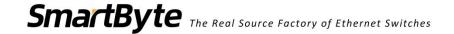
Picture

Features

➢ 4*1G/2.5G/10G SFP+ slots uplink，48*100/1000M SFP ports downlink, 1* RJ45 console interface and 1*USB port for switch basic management and configuration

➢ Layer 3 features: Supports static and dynamic routing, RIP, OSPF, BGP4,ECMP, VRRP

➢ Port aggregation: Supports GE ports, 2.5GE and 10GE 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 ; 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

SmartByte
The Real Source Factory of Ethernet Switches

Technical Specification

Model No.	LT-S8552XG-4XS48GX
Interface	Fiber ports
	52
Ethernet	48*100/1000Base-X SFP 4*1G/2.5G/10G Base-X SFP+
Management port	1*RJ45 Console port (115200,8,N,1) , 1* USB 2.0 port
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		
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	
1-52 (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 ≤60W

Over-current protection	Support
Layer 2 functions	
Port aggregation	Support GE port aggregation
	Support 2.5GE aggregation
	Support 10GE 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
	Support G.8032 ERPS protocol，single ring, sub Ring and major ring
	Recovery time ≤20ms
L2 Multicast	

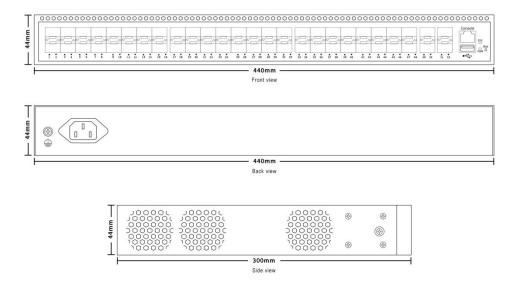|	
IGMP snooping	Support IGMP snooping
Group address	Support group address
Security functions	
ACL	IP Standard ACL MAC extend ACL IP extend ACL IPv6 ACL
QoS	Support QoS Class, remarking Support SP, WRR queue scheduling Ingress port-based rate-limit Egress port-based rate-limit Support policy-based QoS
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 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
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 Support USB 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
ECMP	Support ECMP (Equal-cost multi-path routing)
	Support the configuration of ECMP Max next-hop
	Support capacity balanced configuration
Route policy	IPv4 prefix-list
VRRP	Virtual Router Redundancy Protocol
Routing Protocol Specification	
RIP	RIPv1/v2
OSPFv2	OSPFv2
BGP4	BGP4
	BGP Support Routing Recursive ECMP
	Support to view the number of neighbors and up/down state

IS-IS	IS-ISv4
Routing entry	13K
Switching features	
Switching capacity	352Gbps
Packet forwarding rate	520Mpps
MAC address table	16K
VLAN	4K
Buffer	12M bit
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*300*44mm
Weight	6.1kg
Operating environment	
Operating temperature	0℃~+ 50℃
Storage/transportation temperature	-10℃~+ 70℃
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

Front view

Back view

Side view

Order information

Model	Description
LT-S8552XG-4XS48GX	Layer 3 managed Ethernet switch with 4*1G/2.5G/10G SFP+ slots uplink，48*100/1000M SFP ports downlink，AC 100-240V 50/60Hz