48*10/100/1000Base-T + 4*1G/2.5G/10G SFP +

Layer 3 Managed Ethernet switch

LT-S8552XG-4XS48GT

Overview

SmartByte LT-S8552XG-4XS48GT is a Layer 3 Managed Gigabit Switch that provides high-density performance, Layer 3 static and dynamic routing, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First). With 336 Gbps switching capacity and 4 *1G/2.5G/10Gbps flexible and high performance uplink capability . The LT-S8552XG-4XS48GT 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-4XS48GT perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications.

Picture



Features

- 4*10G/2.5G/10G SFP+ ports uplink, 48 *10/100/1000BASE-T Gigabit Ethernet RJ45 ports downlink, 1* RJ45 console interface for switch basic management and setup
- > 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

Technical Specification

Model No.	LT-S8552XG-4XS48GT	
Interface	Fiber ports	Copper RJ45 ports
	4	48
Ethernet	48*10/100/1000Base-T RJ45 4*1G/2.5G/10GBase-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 IEEE 802.3x Flow Control and Back Pres IEEE 802.1D Spanning Tree Protocol IEEE 802.1W Rapid Spanning Tree Prot IEEE 802.1Q VLAN ITU-T G.8032 ERPS IEEE 802.1X Port Authentication Netw IEEE 802.1ab LLDP IEEE 802.3ad LACP	ocol
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
	Off: ports link down	
1-48 (Copper ports indicators) Green	On: ports link up	
	Blinking: data on TX/RX	
1-48(Copper speed	Off: ports on 10/100M	
indicators) Yellow	On: ports on 1000M	
	Off: ports link down	
49-52 (Fiber ports indicators) Green	On: ports link up	
oreen	Blinking: data on TX/RX	
Power parameter	1	

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Input voltage	AC100~240V Frequency: 50/60Hz	
Total power consumption	Full loading ≤40W	
Over-current protection	Support	
Layer 2 functions		
	Support GE port aggregation	
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	
	Support IEEE802.3x flow control	
	Support interface counters	
	Support port isolation	
Port features	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	
	Support access mode	
VLAN	Support trunk mode	
	Support hybrid mode	
	Mac Based VLAN	
VLAN classification	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	
	IP Standard ACL
ACL	MAC extend ACL
ACL	IP extend ACL
	IPv6 ACL
	Support QoS Class, remarking
	Support SP, WRR queue scheduling
QoS	Ingress port-based rate-limit
	Egress port-based rate-limit
	Support policy-based QoS
	Port access control
802.1x	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 & Mainten	ance 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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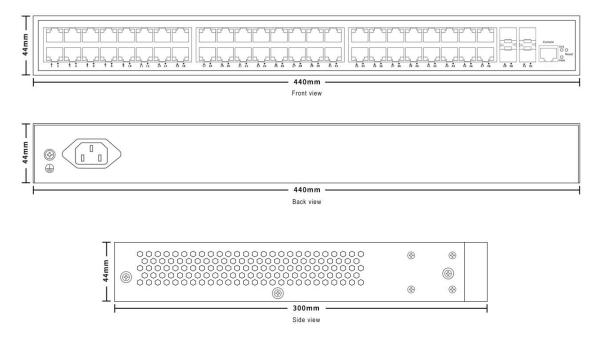
Cable detection	Support copper port cable detection	
NTP	Network Time Protocol	
Syslog/Debug	Syslog/Debug Syslog send to three servers	
Configuration import/export	Support FTP/TFTP remote import/export	
Dual partition management	Support dual partition switching	
Application Protocol Functions		
DHCP 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	
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	

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BGP4BGP4BGP Support Routing Recursive ECMPSupport to view the number of neighbors and up/down stateIS-ISIS-ISv4Routing entry13KSwitching featuresSwitching capacity336GbpsPacket forwarding rate499.9MppsMAC address table16KVLAN4KBuffer12M bitForwarding delay<5us	
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VLAN 4K Buffer 12M bit Forwarding delay <5us	
Buffer 12M bit Forwarding delay <5us	
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 4.5kg	
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	
CCC/CE/UKCA/RoHS/REACH/FCC	
MTBF > 100,000 hours	



Structure diagram



Order information

Model	Description
	Layer 3 managed Ethernet switch with $4* 1G/2.5G/10G$ SFP+ fiber ports + $48*$
LT-S8552XG-4XS48GT	10/100/1000 RJ45 ports, AC 100-240V 50/60Hz