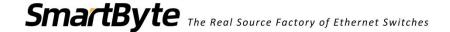# 48*10/100/1000Base-T + 4*1G/2.5GBase-X SFP

Layer 2+ Managed Industrial Rack-mount Ethernet Switch

LT-IS6352G-4GX48GT

Features:

➤ 48*10/100/1000Base-T,   4*1000/2500Base-X SFP

➤ AC/DC redundant power supply with polarity reverse/over-voltage/over-current protection

➤ Support USB one key configuration and upgrading

➤ Layer 3 feature: Support IPv4/IPv6 static routing

➤ Layer 2 features: VLAN; ERPS, STP/RSTP/MSTP; Link aggregation, IGMP snooping, port mirroring, QinQ, 802.1X, port isolation, RMON, NTP client, DHCP snooping/client, Ping/Tracert test, ACL, QoS and SFP DDM function

➤ Management and maintenance: IPv4 and IPv6 management; Support Web, SNMP, CLI, Telnet/SSH management method; Support user management, system log, configuration upload/download through web interface, firmware upgrade via HTTP/TFTP/USB

➤ Support G.8032 ERPS protocol, recovery time ≤20ms

➤ Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection

➤ IP40 fan-less and rack-mount hardware design

➤ Operation temperature: -40 ℃ ~+ 75 ℃

Overview

The SmartByte LT-IS6352G-4GX48GT is the highly reliable Layer 2+ managed industrial Ethernet switch with 48-port 10/100/1000Base-T RJ45 and 4-port 1G/2.5GBase-X SFP. With full gigabit capability, it can provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. It supports G.8032 ERPS, MSTP/RSTP/STP redundancy technologies, Layer 3 IPv4/IPv6 static routing features and powerful Layer 2 management and secure function, which all making them ideal for large-scale industrial networks.

LT-IS6352G-4GX48GT is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range voltage input with redundant power design AC 、 DC or AC/DC selection, robust IP40 fan-less housing with rack-mount installation, wide operation temperature from -40°C to 75 °C as well as high-level EMI/EMC capability. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions are harsh and critical.

Technical specification

Model No.	LT-IS6352G-4GX48GT	
Interface	Fiber ports	Copper RJ45 ports
	4	48
Ethernet	48 *10/100/1000Base-T RJ45 4*1000/2500Base-X SFP	
Management port	1*RJ45 Console port，1*USB 2.0 for configuration and firmware update	
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
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	
1-48 (Copper ports indicators) Green	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
1-48(Copper speed indicators) Yellow	Off: ports on 10/100M	
	On: ports on 1000M	
49-52 (Fiber ports indicators) Green	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
Power parameter		
Input voltage	36-75VDC 100~240VAC redundant power input	
Input current	2A DC/AC input Max	
Total power consumption	Full loading ≤52W	
Connector	Removable 2-pin terminal block	
Reverse polarity protection	Support	
Over-voltage protection	Support	
Over-current protection	Support	
Layer 2 function		
Port aggregation	Support GE port aggregation Support 2.5GE aggregation Support static aggregation Support dynamic aggregation	

Port features	Support IEEE802.3x flow control, Support port traffic statistics, Support port isolation Support network storm suppression based on port bandwidth percentage
VLAN	Support access mode Support trunk mode Support hybrid mode
VLAN Classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN
QinQ	Port-based QinQ VLAN-based QinQ Flow-based QinQ
Port mirroring	Many to one port mirroring
Ring network protocol	Support STP、RSTP、MSTP Support G.8032 ERPS protocol，single ring, sub Ring and associated sub ring Recovery time ≤20ms
DHCP	Support DHCP Client Support DHCP Snooping
Multicast	IGMP V1,V2,V3 IGMP snooping
ACL	IP Standard ACL MAC extend ACL IP extend 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
Security	Support Dot1x，port authentication，MAC authentication，RADIUS service Support port-security Support IP Source Guard，IP/Port/MAC binding Support ARP-check and ARP packet filtering for illegal users Support port isolation
Management & maintenance	Support LLDP Support user management and login authentication Support SNMPV1/V2C/V3

	Support web management, HTTP1.1, HTTPS
	Support Syslog and alarm grading
	Support RMON(Remote Monitoring) alarm
	Support NTP
	Support temperature monitoring
	Support Ping , TRACERT
	Support optical transceiver DDM function
	Support TFTP Client
	Support Telnet Server
	Support SSH Server
	Support IPv6 Management
	Support TFTP, web upgrading
	Support USB upgrading
	Support USB importing configuration

Layer 3 function	
ARP	ARP table aging
IPv4 / IPv6	Static routing

Switching features	
Switching capacity	144Gbps
Packet forwarding rate	214.2Mpps
MAC address table	16K
VLAN	4K
Buffer	12M bit
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support

Mechanical structure	
Case protection	IP40
Installation method	Rack mountable
Dimension(W*D*H)mm	440*44*280mm

Weight	6 kg
Operating environment	
Operating temperature	-40℃~+75℃
Storage/transportation temperature	-40℃~+85℃
Relative humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH
Industrial Standard	
EMS	Surge protection of power: IEC 61000-4-5 DC:6KV/6KV (8/20us), AC: 4K/2K Surge protection of Ethernet ports: IEC 61000-4-5　6KV/2KV（10/700us） RS：IEC 61000-4-3 80 MHz-1 GHz：10 V/m EFT：IEC 61000-4-4 power 4K, signal 2K CS：IEC 61000-4-6 10V ESD：IEC 61000-4-2　Contact: 8K；Air: 15K
EMI	FCC Part 15B Class A
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Certification	CCC/CE/FCC/RoHS
Warranty	5 years

Structure diagram

Front view

Rear view

Aeroview

Order information

Model	Description
LT-IS6352G-4GX48GT-2AC	Layer 2+ managed industrial Ethernet switch with 4*1000/2500Base-X SFP ports， 48*10/100/1000Base-T RJ45 ports. Dual AC 100-240V 50/60Hz input, rack mountable; Operation temperature -40°C to 75 °C
LT-IS6352G-4GX48GT-AC/DC	Layer 2+ managed industrial Ethernet switch with 4*1000/2500Base-X SFP ports， 48*10/100/1000Base-T RJ45 ports. AC 100-240V 50/60Hz and DC 36-75V input, rack mountable; Operation temperature -40°C to 75 °C
LT-IS6352G-4GX48GT-2DC	Layer 2+ managed industrial Ethernet switch with 4*1000/2500Base-X SFP ports， 48*10/100/1000Base-T RJ45 ports. Dual DC 36-75V input， rack mountable; Operation temperature -40°C to 75 °C