8*10/100/1000Base-T + 2*1G/2.5Base-X SFP

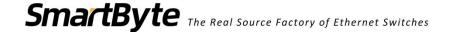
LT-IS6310G-2GX8GT Series





Features:

- > 8*10/100/1000Base-T RJ45 ports, 2*1000/2500Base-X SFP slots
- > Redundant power 12-58V input with polarity reverse/over-voltage/over-current protection
- Support USB one key configuration and upgrading(optional)
- Support DI/DO/RS485(optional)
- Layer 3 features: Support IPv4/IPv6 static routing, DHCP server
- Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP, MSTP/Port Mirroring/DHCP/Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP DDM/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time ≤20ms
- > Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- > IP40 fan-less and Din-rail hardware design
- > Operation temperature: -40 °C ~+75 °C



Overview

The SmartByte LT-IS6310G-2GX8GT series are highly reliable managed industrial Ethernet switch with 8-port 10/100/1000-T RJ45 and 2-port 1G/2.5GBase-X fiber optical interfaces. They support ERPS redundant network and the self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your back-up solution. They support IPv4/IPv6 static routing, DHCP server and robust Layer 2 management and secure function, which can fulfill the special needs of industrial automation applications.

LT-IS6310G-2GX8GTseries are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, including wide range power input 12-58VDC, redundant power design with polarity reverse/over-voltage/over-current protection, robust IP40 fan-less housing with Din-rail installation, wide operation temperature from -40°C to 75°C as well as high-level EMI/EMC capability. They are 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-IS6310G-2GX8GT/ LT-IS6310G-2GX8GT-D	
Interface	Fiber ports	Copper RJ45 ports
	2	8
Ethernet	8*10/100/1000Base-T RJ45 2*1000/2500Base-X SFP	
Management port	1*RJ45 Console port (115200,8,N,1), 1*USB 2.0 (optional)	
Data & Alarm channel (optional)	1 channel RS485 1 channel DI(digital input) 1 channel DO(digital output)	
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	

Over-current protection Layer 2 functions	Support	
Over-voltage protection	Support	
Reverse polarity protection	Support	
Connector	Removable 4-pin terminal block	
Total power consumption	Full loading ≤10W	
Input current	0.9A Max	
Input voltage	12-58V DC, redundant power input	
Power parameter		
	Blinking: data on TX/RX	
9-10 (Fiber ports indicators) Green	On: ports link up	
	Off: ports link down	
Yellow	On: ports on 1000M	
1-8(Port speed indicators)	Off: ports on 10/100M	
	Blinking: data on TX/RX	
1-8 (Copper ports indicators) Green	On: ports link up	
4.0/0	Off: ports link down	
ALM(Fault status indicator) Red	Off: Device on normal working state	On: Fault alarm
ALDA(Fault atatus in Parts A	Blinking: the device is reading and writ	ing the data from USB flash drive
USB (USB status indicator) Green	On: USB flash drive is detected by device	
LICE (LICE status in diseases)	Off: USB flash drive not insert or not detected by device	
S (System status indicator)	Blinking: device initialization	On: device on normal operation
P (Power indicator)	Off: the device is power off or failed	On: the device power on is normal
LED Indicators		
	IEEE 802.1ab LLDP IEEE 802.3ad LACP	
	IEEE 802.1X Port Authentication Network Control	
	ITU-T G.8032 ERPS	

	Constant CE and accession	
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	
	Support IEEE802.3x flow control,	
	Support interface counters,	
	Support port isolation,	
Port features	Port mirroring (One-to-One, Many-to-One)	
1 of the real areas	Support loop detection(Port-based; VLAN-based)	
	Support broadcast storm suppression(broadcast; unknown multicast;	
	unknown unicast)	
	Support static Mac-address management	
	Support dynamic Mac-address Management	
Mac-address table	Support filtering Mac-address	
management	Support MAC limit based on port and VLAN	
	Support MAC flapping based on port and VLAN	
	Support access mode	
VLAN	Support trunk mode	
VEATV	Support hybrid mode	
	Mac Based VLAN	
VLAN classification	IP Based VLAN	
	Protocol Based VLAN	
	Normal mode	
GVRP	Fixed mode	
	Forbidden mode	
	Port-based QinQ	
QinQ	VLAN-based QinQ (VLAN-stacking; VLAN-mapping)	
	Flow-based QinQ	
LLDP	LLDP (Link Layer Discovery Protocol)	
	Support IEEE802.1D-STP	
	Support IEEE802.1W-RSTP	
Ring network protocol	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	
L		

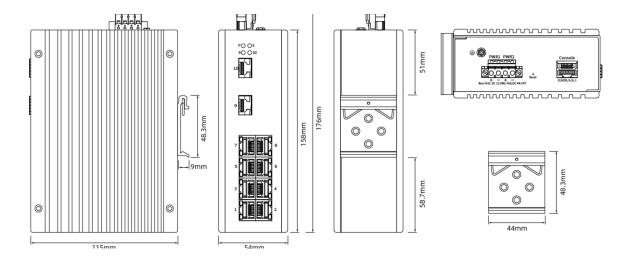
Security functions		
	IP Standard ACL	
ACL	MAC extend ACL	
ACL	IP extend ACL	
	IPv6 ACL	
	Support QoS Class, remarking	
	Support SP, WRR queue scheduling	
QoS	Ingress port-based rate-limit	
	Egress port-based rate-limit	
	Support policy-based QoS	
	Port access control	
802.1x	Mac-address access control	
	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 & Maintenance	Management & Maintenance functions	
User Management	Support password protection	
Osci Wanagement	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	
	Ping/Tracerout	
Fault Detection	Dying gasp	
	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	
	Support FTP/TFTP remote import/export	
Configuration 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 Syslog send to two servers	
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	26Gbps	
Packet forwarding rate	38.6Mpps	
MAC address table	16K	
VLAN	4K	
Buffer	12Mbit	
Forwarding delay	<5us	
Jumbo Frame	Support 10Kbytes	
MDX/MIDX	Support	
Watchdog	Support	
Mechanical structure		
Case protection	IP40	

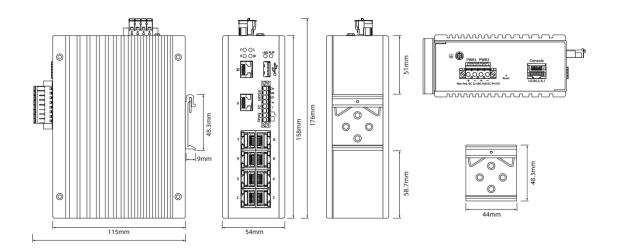
Installation method	Din-rail	
Dimension(W*D*H)mm	54*115*158mm	
Weight	LT-IS6310G-2GX8GT(1.08 kg); LT-IS6310G-2GX8GT-D(1.18 kg)	
Operating environment		
Operating temperature	-40℃~+75℃	
Storage/transportation temperature	-40°C~+85°C	
Relative humidity	Operation humidity: 10%-90%RH	
Industrial Standard	Storage humidity: 5%-95%RH	
EMS	Surge protection of power: IEC 61000-4-5 6KV/4KV (8/20us) 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 4K/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/UKCA/RoHS/REACH/FCC	
МТВБ	> 200,000 hours	
Warranty	5 years	

Structure diagram

LT-IS6310G-2GX8GT



LT-IS6310G-2GX8GT-D





Order information

Model	Description
LT-IS6310G-2GX8GT	L2+ Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 2*1G/2.5GBase-X SFP slots, DC12-58V input, redundant dual power supply, Din-rail installation. Operation temperature: -40 $^{\circ}$ C $^{\sim}$ +75 $^{\circ}$ C
LT-IS6310G-2GX8GT-D	L2+ Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 2*1G/2.5GBase-X SFP slots, supports DI/DO/RS485, DC12-58V input, redundant dual power supply, Din-rail installation; Operation temperature: -40 $^{\circ}$ C $^{\circ}$ +75 $^{\circ}$ C