

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

Layer 2+ Managed Industrial Ethernet Switch LT-IS6320G-12GX8GT series



Features:

- 8*10/100/1000Base-T RJ45, 8*100/1000Base-X SFP, 4*1G/2.5GBase-X SFP
- ➤ 12-75V redundant DC power supply with polarity reverse/over-voltage/over-current protection
- > Support USB one key configuration & upgrading and DI/DO/RS485/Modbus data
- > DI/DO/RS485/Modbus data optional
- 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 Din-rail hardware design
- ➤ Operation temperature: -40 °C ~+ 80 °C



Overview

The SmartByte LT-IS6320G-12GX8GT series are the highly reliable Layer 2+ managed industrial Ethernet switches with 8-port 10/100/1000Base-T RJ45, 8-port 100/1000Base-X SFP and 1G/2.5GBase-X SFP. With full gigabit capability, They can provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. They support DI/DO/RS485/Modbus data, G.8032 ERPS, MSTP/RSTP/STP redundancy technologies, Layer 3 static routing features, powerful Layer 2 management and secure function, which all making them ideal for large-scale industrial networks.

LT-IS6320G-12GX8GT series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, including redundant power supply with DC12-75V input, robust IP40 fan-less housing with Din-rail installation, wide operation temperature from -40°C to 80 °C as well as high-level EMI/EMC capability. They are the best choices 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-IS6320G-12GX8GT/LT-IS6320G-12GX8GT-D	
Interface	Fiber ports	Copper ports
	12	8
Ethernet	8*10/100/1000Base-T RJ45 8*100/1000Base-X SFP (1-8 ports) 4*1G/2.5GBase-X SFP (17-20 ports)	
Management port	1*RJ45 Console port, 1*USB 2.0 for configuration and firmware update	
Data 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 IEEE 802.3x Flow Control and Back Pressure IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1Q VLAN	

	ITIL T G 9022 EDDS		
	ITU-T G.8032 ERPS IEEE 802.1X Port Authentication Network Control		
	IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP		
	IEEE 802.3ad LACP		
LED Indicators			
P1/P2 (Power indicator) Green	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: USB flash drive not insert or not detected by device		
USB (USB status indicator) Green	On: USB flash drive is detected by device		
	Blinking: the device is reading and writing the data from USB flash drive		
ALM(Fault status indicator) Red	Off: Device on normal working state	On: Fault alarm	
Ring(Ring network indicator)	Off: Ring network disable	On: Ring network enable	
	Off: ports link down		
9-16 (Copper ports indicators) Green	On: ports link up		
,	Blinking: data on TX/RX		
9-16(Copper speed indicators) Yellow	Off: ports on 10/100M		
	On: ports on 1000M		
	Off: ports link down		
1-8/17-20 (Fiber ports indicators) Green	On: ports link up		
	Blinking: data on TX/RX		
Power parameter			
Input voltage	12-75VDC redundant power input		
Input current	2.5A DC/DC input Max		
Total power consumption	Full loading ≤25W		
Connector	Removable 2-pin terminal block		
Reverse polarity protection	Support	Support	
Over-voltage protection	Support		
Over-current protection	Support		

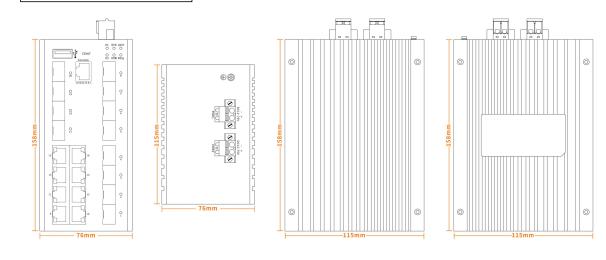
Layer 2 function		
	Support GE port aggregation	
	Support 2.5GE aggregation	
Port aggregation	Support static aggregation	
	Support dynamic aggregation	
	Support IEEE802.3x flow control,	
	Support port traffic statistics,	
Port features	Support port isolation	
	Support network storm suppression based on port bandwidth percentage	
	Support access mode	
VLAN	Support trunk mode	
	Support hybrid mode	
	Mac Based VLAN	
VLAN Classification	IP Based VLAN	
	Protocol Based VLAN	
	Port-based QinQ	
QinQ	VLAN-based QinQ	
	Flow-based QinQ	
Port mirroring	Many to one port mirroring	
Discount and analysis	Support STP、RSTP、MSTP	
Ring network protocol	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	
	IP Standard ACL	
ACL	MAC extend ACL	
	IP extend 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	
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	
	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	
Management &	Support temperature monitoring	
maintenance	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	1	
ARP	ARP table aging	
IPv4 / IPv6	Static routing	
Switching features		
Switching capacity	52Gbps	
Packet forwarding rate	77.3Mpps	
MAC address table	16K	
VLAN	4K	
Buffer	12M bit	
Forwarding delay	<5us	
Jumbo Frame	Support 10Kbytes	
MDX/MIDX	Support	
Watchdog	Support	
Mechanical structure		

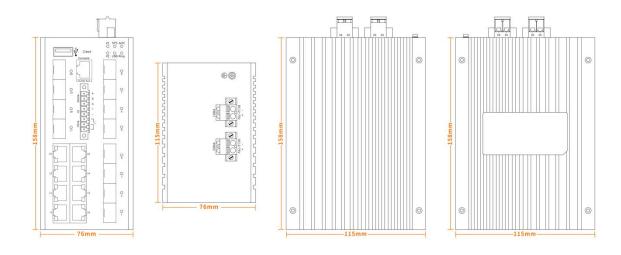
Case protection	IP40	
Installation method	Din-rail	
Dimension(W*D*H)mm	105*115*158mm	
Weight	LT-IS6320G-12GX8GT: 1.8kg; LT-IS6320G-12GX8GT-D:1.9kg	
Operating environment		
Operating temperature	-40°C~+ 80°C	
Storage/transportation temperature	-40°C~+ 85°C	
Relative humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH	
Industrial Standard		
EMS	Surge protection of power: IEC 61000-4-5 DC:6KV/6KV (8/20us) 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

LT-IS6320G-12GX8GT



LT-IS6320G-12GX8GT-D





Order information

Model	Description	
LT-IS6320G-12GX8GT	Layer 2+ managed industrial Ethernet switch with 4*1G/2.5GBase-X SFP,	
	8*100/1000Base-X SFP ports and 8*10/100/1000Base-T RJ45 ports. Dual DC	
	12-75V input, Din-rail installation; Operation temperature -40°C to 80°C	
LT-IS6320G-12GX8GT-D	Layer 2+ managed industrial Ethernet switch with 4*1G/2.5GBase-X SFP,	
	8*100/1000Base-X SFP ports and 8*10/100/1000Base-T RJ45 ports.Support	
	DI/DO/RS485/Modbus;Dual DC 12-75V input, Din-rail installation; Operation	
	temperature -40°C to 80 °C	