## 16\*10/100/1000Base-T + 4\*1G/2.5GBase-X SFP

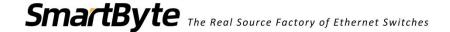
# Layer 2+ Managed Industrial Ethernet Switch LT-IS6320G-4GX16GT Series





#### **Features:**

- > 16\*10/100/1000Base-T RJ45, 4\*1000/2500Base-X SFP
- > 12-75V redundant DC power supply with polarity reverse/over-voltage/over-current protection
- Support USB one key configuration & upgrading
- > 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-4GX16GT series are the highly reliable Layer 2+ managed industrial Ethernet switches with 16-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. They supports 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-4GX16GT 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-4GX16GT / LT-IS6320G-4GX16GT-D	
Interface	Fiber ports	Copper ports
	4	16
Ethernet	16*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	
Data channel(Optional)	1 channel RS485	
	1 channel DI(digital input)	
	1 channel DO(digital output)	
	IEEE 802.3 10Base-T Ethernet	
	IEEE 802.3u 100Base-TX Ethernet	
	IEEE 802.3ab 1000Base-T Ethernet	
	IEEE 802.3z 1000Base-X Ethernet	
Standard	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 Netwo	ork 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		
<b>1-16</b> (Copper ports indicators) Green	On: ports link up		
	Blinking: data on TX/RX		
1-16(Copper speed indicators) Yellow	Off: ports on 10/100M		
	On: ports on 1000M		
	Off: ports link down		
<b>17-20</b> (Fiber ports indicators) Green	On: ports link up		
	Blinking: data on TX/RX		
Power parameter			
Input voltage	12-75VDC redundant power input		
Input current	2A DC/DC input Max		
Total power consumption	Full loading ≤22W		
Connector	Removable 2-pin terminal block		
Reverse polarity protection	Support		
Over-voltage protection	Support		
Over-current protection	Support		

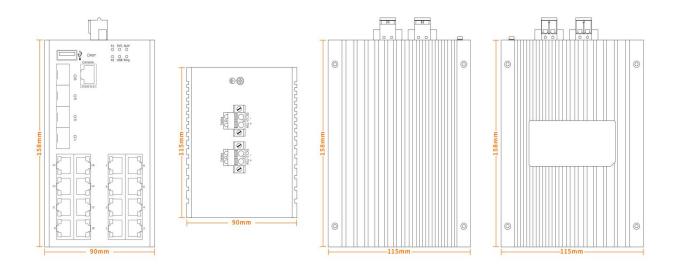
Layer 2 function	
Port aggregation	Support GE port aggregation
	Support 2.5GE aggregation
	Support static aggregation
	Support dynamic aggregation
	Support IEEE802.3x flow control,
	Support port traffic statistics,
Port features	Support port isolation
	Support network storm suppression based on port 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
	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	
	Support temperature monitoring	
Management &	Support Ping , TRACERT	
maintenance	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	52 Gbps	
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	Mechanical structure	

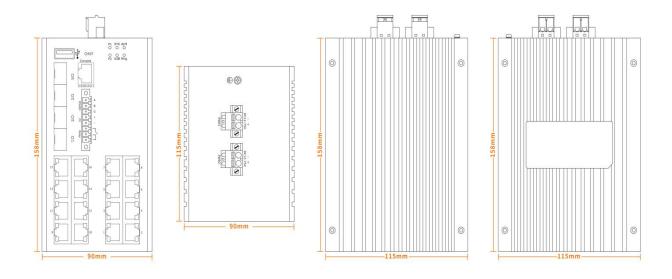
Case protection	IP40	
Installation method	Din-rail	
Dimension(W*D*H)mm	90*115*158mm	
Weight	LT-IS6320G-4GX16GT: 1.85kg ; LT-IS6320G-4GX16GT-D: 1.95kg	
Operating environment		
Operating temperature	-40°C~+ 80°C	
Storage/transportation temperature	-40°C~+ 85°C	
Relative humidity	Operation humidity: 10%-90%RH 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	
ЕМІ	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-4GX16GT



## LT-IS6320G-4GX16GT-D





## **Order information**

Model	Description
LT-IS6320G-4GX16GT	Layer 2+ managed industrial Ethernet switch with 4*1G/2.5GBase-X SFP ports
	and 16*10/100/1000Base-T RJ45 ports. Dual DC 12-75V input , Din-rail
	installation; Operation temperature -40°C to 80 °C
	Layer 2+ managed industrial Ethernet switch with 4*1G/2.5GBase-X SFP ports
LT-IS6320G-4GX16GT-D	and 16*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