

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

Layer 2+ Managed Industrial Ethernet Switch

LT-IS6316G-8GX8GT



Features:

- 8*10/100/1000Base-T RJ45 ports, 4*100/1000Base-X SFP, 4*1G/2.5G Base-X SFP
- Redundant power DC 12-58V input with polarity reverse/over-voltage/over-current protection
- Support one digital output for relay alarm (terminal block Pin 5/6)
- Layer 3 feature: Support IPv4/IPv6 static routing
- 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 $\leq 20\text{ms}$
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design
- Operation temperature: $-40\text{ }^{\circ}\text{C} \sim +75\text{ }^{\circ}\text{C}$

Overview

The SmartByte LT-IS6316G-8GX8GT is the highly reliable managed industrial Ethernet switch with 8-port 10/100/1000-T RJ45, 4-port 100/1000Base-X SFP and 4-port 1G/2.5GBase-X SFP slots. It supports 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. It also supports Layer 3 static routing features, powerful Layer 2 management and secure function, which all making them ideal for large-scale industrial networks.

LT-IS6316G-8GX8GT is a high cost-effective easy-to-use device, which provides 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. 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-IS6316G-8GX8GT	
Interface	Fiber ports	Copper RJ45 ports
	8	8
Ethernet	8*10/100/1000Base-T RJ45 4*1G/2.5GBase-X SFP (9-12 ports) 4*100/1000Base-X SFP (13- 16ports)	
Management port	1*RJ45 Console port	
Alarm port	One digital output for relay alarm, alarm relay current carry ability: 1A@24VDC	
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	

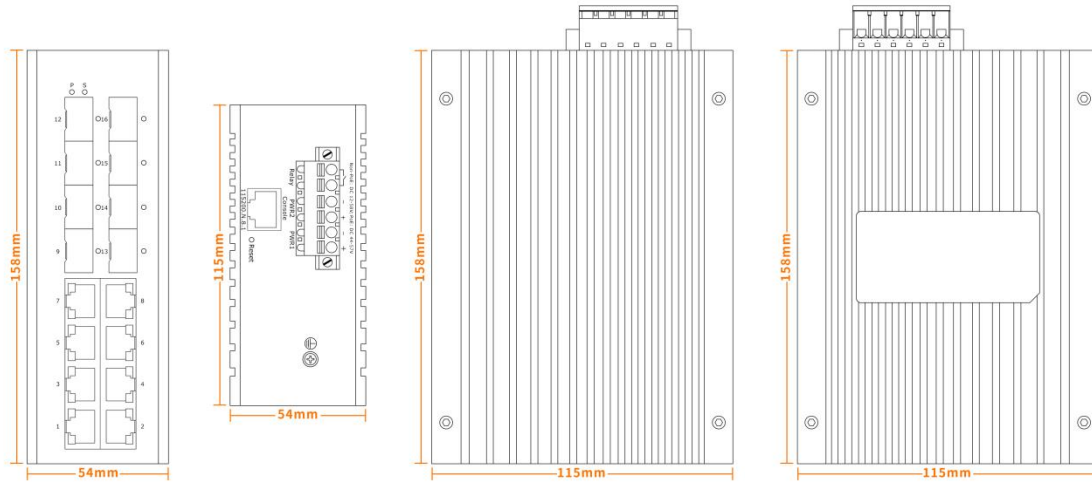
	IEEE 802.1Q VLAN ITU-T G.8032 ERPS IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3ad LACP	
LED Indicators		
P (Power indicator) Green	Off: the device is power off or failed	On: the device power on is normal
S (System status indicator)	Blinking: device initialization	On: device on normal operation
1-8 (Copper ports indicators) Green	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
1-8 (Speed indicators) Yellow	Off: port on 10/100M	
	On: port on 1000M	
9-16 (Fiber ports indicators) Green	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
Power parameter		
Input voltage	12-58VDC, redundant power input	
Input current	1.5A Max	
Total power consumption	Full loading ≤18W	
Connector	Removable 6-pin terminal block, Pin 5-6 for relay alarm	
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,	

	<p>Support port traffic statistics, Support port isolation Support network storm suppression based on port bandwidth percentage</p>
VLAN	<p>Support access mode Support trunk mode Support hybrid mode</p>
VLAN Classification	<p>Mac Based VLAN IP Based VLAN Protocol Based VLAN</p>
QinQ	<p>Port-based QinQ VLAN-based QinQ Flow-based QinQ</p>
Port mirroring	<p>Many to one port mirroring</p>
Ring network protocol	<p>Support STP、RSTP、MSTP Support G.8032 ERPS protocol, single ring, sub Ring and associated sub ring Recovery time ≤20ms</p>
DHCP	<p>Support DHCP Client Support DHCP Snooping</p>
Multicast	<p>IGMP V1,V2,V3 IGMP snooping</p>
ACL	<p>IP Standard ACL MAC extend ACL IP extend ACL</p>
QoS	<p>Support QoS Class, Remarking Support SP, WRR queue scheduling Ingress Port-based Rate-limit Egress Port-based Rate-limit Support Policy-based QoS</p>
Security	<p>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</p>
Management & maintenance	<p>Support LLDP Support user management and login authentication Support SNMPV1/V2C/V3 Support web management, HTTP1.1, HTTPS</p>

	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
Layer 3 function	
ARP	ARP table aging
IPv4 / IPv6	Static routing
Switching features	
Switching capacity	44Gbps
Packet forwarding rate	65.4Mpps
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	54*115*158mm
Weight	1.45 kg
Operating environment	

Operating temperature	-40°C~+75°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 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/FCC/RoHS
Warranty	5 years

Structure diagram



Order information

Model	Description
LT-IS6316G-8GX8GT	Layer 2+ Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports, 4*100/1000Base-X SFP and 4*1G/2.5GBase-X SFP slots, DC12-58V input, redundant dual power supply, Din-rail installation. Operation temperature: -40°C ~ +75°C