

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

SFP+ Layer 2+ Managed Industrial Ethernet Switch LT-IS6316XG-4XS4GX8GT



Features:

- 8*10/100/1000Base-T RJ45 ports, 4*100/1000Base-X SFP, 4*1G/2.5G/10GBase-X SFP+ slots
- > Redundant power 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 ≤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-IS6316XG-4XS4GX8GT is the highly reliable managed industrial Ethernet switches with 8-port 10/100/1000-T RJ45, 4-port 100/1000Base-X SFP and 4-port 1G/2.5G/10GBase-X SFP+ interfaces. 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. LT-IS6316XG-4XS4GX8GT supports Layer 3 static routing features and robust layer 2 management function, which can fulfill the special needs of industrial automation applications.

LT-IS6316XG-4XS4GX8GT is also 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-IS6316XG-4XS4GX8GT	
Interface	Fiber ports	Copper RJ45 ports
	8	8
Ethernet	8*10/100/1000Base-T RJ45 4*100/1000Base-X SFP (13-16 ports) 4*1G/2.5G/10GBase-X SFP+ (9-12 ports)	
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	
	IEEE 802.3ae 10Gb/s Ethernet	
	IEEE802.3x Flow Control and Back Pressure	
	IEEE 802.1D Spanning Tree Protocol	
	IEEE 802.1w Rapid Spanning Tree Protocol	

IEEE 802 10 V/I AN	
IEEE 802.1X Port Authentication Network Control	
IEEE 802.1ab LLDP	
IEEE 802.3ad LACP	
Off: the device is power off or failed	On: the device power on is normal
Blinking: device initialization	On: device on normal operation
Off: ports link down	
On: ports link up	
Blinking: data on TX/RX	
Off: ports on 10/100M	
On: ports on 1000M	
Off: ports link down	
On: ports link up	
Blinking: data on TX/RX	
12-58VDC, redundant power input	
1.6A Max	
Full loading ≤20W	
Removable 6-pin terminal block, Pin 5,	/6 for relay alarm output
Support	
Support	
Support	
Support GE port aggregation	
Support 2.5GE aggregation	
Support 10GE aggregation	
1 .,	
	IEEE 802.1ab LLDP IEEE 802.3ad LACP Off: the device is power off or failed Blinking: device initialization Off: ports link down On: ports link up Blinking: data on TX/RX Off: ports on 10/100M On: ports on 1000M Off: ports link down On: ports link up Blinking: data on TX/RX 12-58VDC, redundant power input 1.6A Max Full loading ≤20W Removable 6-pin terminal block, Pin 5, Support Support Support Support Support Support 2.5GE aggregation

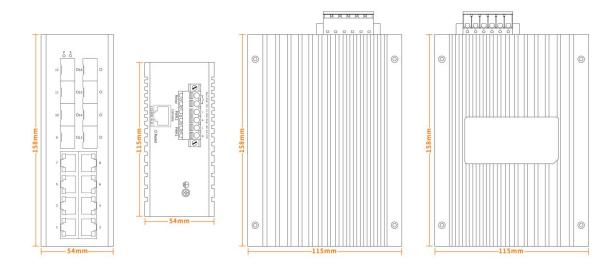
Support IEEE802.3x flow control, Support port traffic statistics, Support port traffic statistics, Support network storm suppression based on port bandwidth percentage VLAN Support network storm suppression based on port bandwidth percentage VLAN Support trunk mode Support hybrid mode Mac Based VLAN IP Based VLAN Protocol Based VLAN Protocol Based VLAN Protocol Based VLAN Port-based QinQ Flow-based QinQ Flo			
Support port isolation Support network storm suppression based on port bandwidth percentage VLAN Support access mode Support trunk mode Support hybrid mode Mac Based VLAN IP Based VLAN Protocol Based VLAN Buport STP, RSTP, MSTP Support BHCP Client Support DHCP Client Support DHCP Client Support DHCP Snooping IP Standard ACL MAC extend ACL Protocol Based VLAN Buport Based Rate-limit Support QoS Class, Remarking Support SP, WRR queue scheduling Ingress Port-based Rate-limit Support Policy-based QoS Support Dot1x, port authentication, MAC authentication, RADIUS service Support Policy-based QoS Support Dot1x, port authentication, MAC authentication, RADIUS service Support Policy-based Are Packet filtering for illegal users Support Pour Isolation Support LLDP Support LLDP Support user management and login authentication	Port features	Support IEEE802.3x flow control,	
Support port isolation Support network storm suppression based on port bandwidth percentage Support access mode Support trunk mode Support hybrid mode Mac Based VLAN IP Based VLAN Protocol Based VLAN Protocol Based VLAN Port-based QinQ VLAN-based QinQ Port mirroring Many to one port mirroring Support STP、RSTP、MSTP Support G.8032 ERPS protocol, single ring, sub Ring and associated sub ring Recovery time s20ms Support DHCP Client Support DHCP Support DHCP Snooping IP Standard ACL ACL MAC extend ACL IP extend ACL IP extend ACL IP extend ACL IP extend ACL Support DHCy-based Rate-limit Support Policy-based Rate-limit Support Policy-based QoS Support Dot1x, port authentication, MAC authentication, RADIUS service Support port-security Support IP Source Guard, IP/Port/MAC binding Support Support port isolation Management & Support LLDP Support USP Support user management and login authentication		Support port traffic statistics,	
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Egress Port-based Rate-limit Support Policy-based QoS 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 & Support LLDP Support user management and login authentication		Support SP, WRR queue scheduling	
Support Policy-based QoS 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 & Support LLDP Support user management and login authentication	QoS	Ingress Port-based Rate-limit	
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Security Security Support IP Source Guard, IP/Port/MAC binding Support ARP-check and ARP packet filtering for illegal users Support port isolation Management & Support LLDP Management & Support user management and login authentication		Support Policy-based QoS	
Security Support IP Source Guard, IP/Port/MAC binding Support ARP-check and ARP packet filtering for illegal users Support port isolation Management & Support LLDP Management and login authentication	Security	Support Dot1x, port authentication, MAC authentication, RADIUS service	
Support IP Source Guard, IP/Port/MAC binding Support ARP-check and ARP packet filtering for illegal users Support port isolation Support LLDP Management & Support user management and login authentication		Support port-security	
Support port isolation Support LLDP Management & Support user management and login authentication		Support IP Source Guard, IP/Port/MAC binding	
Management & Support LLDP Management & Support user management and login authentication		Support ARP-check and ARP packet filtering for illegal users	
Management & Support user management and login authentication		Support port isolation	
maintenance Support user management and login authentication		Support LLDP	
Support SNMPV1/V2C/V3		Support user management and login authentication	
		Support SNMPV1/V2C/V3	

SmartByte The Real Source Factory of Ethernet Switches

	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
Layer 3 function	
ARP	ARP table aging
IPv4 / IPv6	Static routing
Switching features	
Switching capacity	104Gbps
Packet forwarding rate	154.7Mpps
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	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-IS6316XG-4XS4GX8GT	Layer 2+ Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports, 4*100/1000Base-X SFP and 4*1G/2.5G/10GBase-X SFP+ slots, DC12-58V input, redundant dual power supply, Din-rail installation. Operation temperature: -40°C \sim +75°C