SmartByte
The Real Source Factory of Ethernet Switches

16*100/1000Base-X SFP + 8*1G Combo + 4*1G/2.5/10GBase-X SFP+

Layer 2+ Managed Industrial Rack-mount Switch

LT-IS6328XG-4XS16GX8GC

Features:

➤ 16*100/1000Base-X SFP, 8*1000Base Combo, 4*1G/2.5/10GGBase-X SFP+

➤ AC/DC redundant power supply with polarity reverse/over-voltage/over-current protection

➤ Support USB one key configuration and upgrading

➤ Support DI/DO/RS485/Modbus data

➤ 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 rack-mount hardware design

➤ Operation temperature: -40 ℃ ~+80 ℃

Overview

The SmartByte LT-IS6328XG-4XS16GX8GC is the highly reliable Layer 3 managed industrial fiber switch with 16-port 100/1000Base-X SFP ,8-port 1000Base Combo and 4-port 10G Base-X SFP+. With full gigabit downlink and 10G uplink capability, it can provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. It supports DI/DO/RS485/Modbus data, G.8032 ERPS, MSTP/ RSTP/STP redundancy technologies and supports Layer 3 static routing functionality, which all making them ideal for large-scale industrial networks.

LT-IS6328XG-4XS16GX8GC is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range voltage input with redundant power AC、 DC or AC/DC selection, robust IP40 fan-less housing with rack-mount installation, wide operation temperature from -40°C to 80 °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

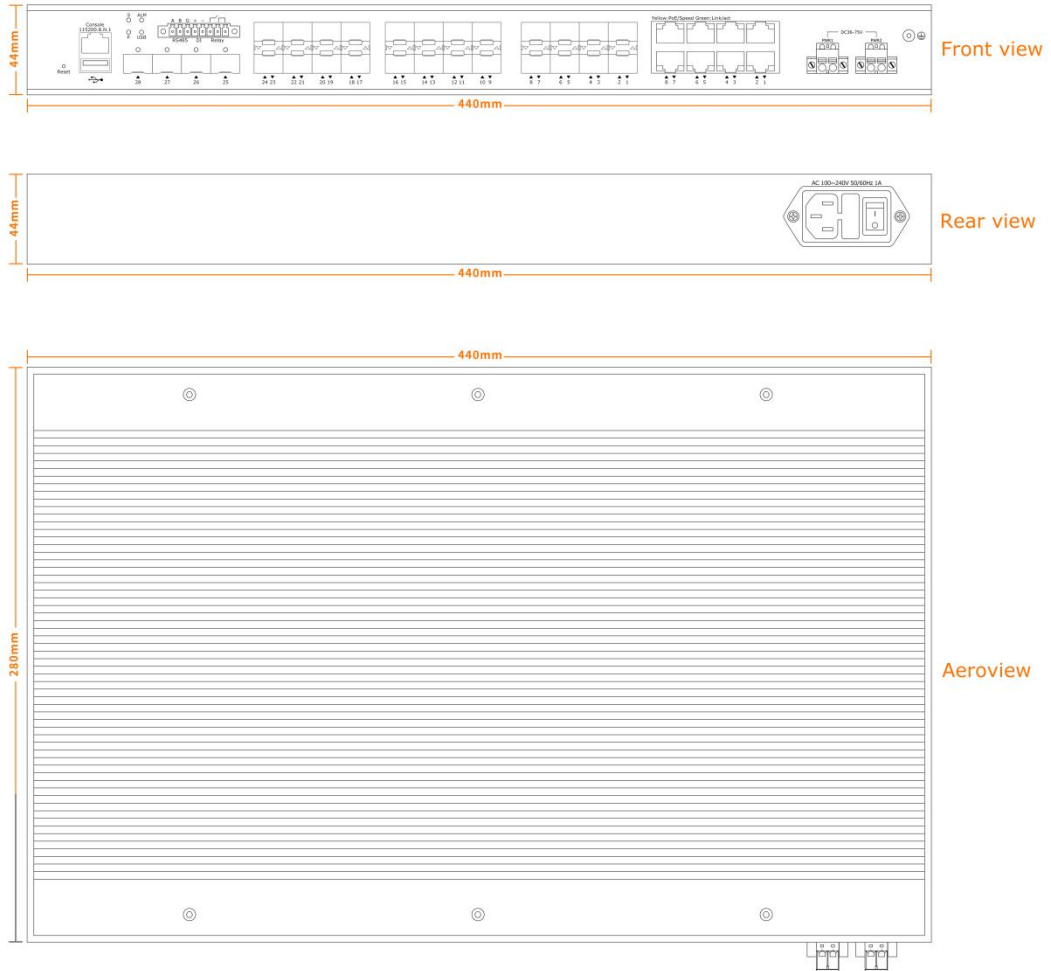| Model No.	LT-IS6328XG-4XS16GX8GC		
Interface	10G Fiber ports	100/1000M Fiber ports	Gigabit Combo
	4	16	8
Ethernet	16*100/1000Base-X SFP 8*COMBO SFP/RJ45 4*1G/2.5G/10GBase-X SFP+		
Management port	1*RJ45 Console port，1*USB 2.0		
Data channel	1 channel RS485 1 channel DI(digital input) 1 channel DO(digital 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 802.3ae 10Gb/s Ethernet IEEE802.3x Flow Control and Back Pressure IEEE 802.1D Spanning Tree Protocol		

	IEEE 802.1w Rapid Spanning Tree Protocol	
	IEEE 802.1Q 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)	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
USB (USB status indicator)	Off: USB flash drive not insert or not detected by device	
	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
1-8 (Copper ports indicators) Green	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
1-8(Copper speed indicators) Yellow	Off: port speed is 10/100M	
	On: port speed is 1000M	
9-28(Fiber ports indicators) Green	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
Power parameter		
Input voltage	36-75VDC 100~240VAC redundant power input	
Input current	1.2A DC/AC input Max	
Total power consumption	Full loading ≤40W	
Connector	Removable 4-pin terminal block AC socket	
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 10GE aggregation Support static aggregation Support dynamic aggregation
Port features	Support IEEE802.3x flow control, Support port traffic statistics, Support port isolation Support network storm suppression based on port bandwidth percentage
VLAN	Support access mode Support trunk mode Support hybrid mode
VLAN Classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN
QinQ	Port-based QinQ VLAN-based QinQ Flow-based QinQ
Port mirroring	Many to one port mirroring
Ring network protocol	Support STP、RSTP、MSTP 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
ACL	IP Standard ACL MAC extend ACL IP extend ACL
QoS	Support QoS Class, Remarking Support SP, WRR queue scheduling 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
Management & maintenance	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
	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	
ARP	ARP table aging
IPv4/ IPv6	Static routing

Switching features	
Switching capacity	128Gbps
Packet forwarding rate	190.4Mpps
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	Rack mountable
Dimension(W*D*H)mm	440*44*280mm
Weight	5 kg
Operating environment	
Operating temperature	-40℃~+ 80 ℃
Storage/transportation temperature	-40℃~+ 85℃
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), AC: 4K/2K 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

Front view

44mm

440mm

Rear view

44mm

AC 100~240V 50/60Hz 1A

440mm

Aeroview

440mm

280mm

Order information

Model	Description
LT-IS6328XG-4XS16GX8GC-2AC	Layer 2+ managed industrial Ethernet switch with 4*1G/2.5G /10G SFP+ fiber ports，16*100/1000Base-X and 8*1G Combo RJ45/SFP ports. Dual AC 100-240V 50/60Hz input, rack mountable; Operating temperature: -40℃~+ 80 ℃
LT-IS6328XG-4XS16GX8GC-AC/DC	Layer 2+ managed industrial Ethernet switch with 4*1G/2.5G /10G SFP+ fiber ports，16*100/1000Base-X and 8*1G Combo RJ45/SFP ports. AC 100-240V 50/60Hz and DC 36-75Vinput, rack mountable; Operating temperature: -40℃~+ 80 ℃
LT-IS6328XG-4XS16GX8GC-2DC	Layer 2+ managed industrial Ethernet switch with 4*1G/2.5G /10G SFP+ fiber ports，16*100/1000Base-X and 8*1G Combo RJ45/SFP port. Dual DC 36-75V input，rack mountable; Operating temperature: -40℃~+ 80 ℃