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

L2+ Managed Industrial Rack-mount Ethernet Switch

LT-IS6328G-4GX16GT8GC-U Series



Features:

- 16*10/100/1000Base-T RJ45, 8*1G Combo RJ45/SFP, 4*1G/2.5G Base-X SFP
- > AC/DC redundant power supply with polarity reverse/over-voltage/over-current protection
- Support USB one key configuration and upgrading
- > DI/DO/RS485 are optional
- > Layer 3 features: Support IPv4/IPv6 static routing, DHCP server
- 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 °C ~+ 80 °C

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Overview

The SmartByte LT-IS6328G-4GX16GT8GC-U series are the highly reliable Layer 2+ managed industrial Ethernet switches with 16-port 10/100/1000Base-T RJ45, 8-port 1000Base Combo and 4-port 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, G.8032 ERPS, MSTP/RSTP/STP redundancy technologies, IPv4/IPv6 static routing, DHCP server and robust Layer 2 management and secure function, which all making them ideal for large-scale industrial networks.

LT-IS6328G-4GX16GT8GC-U series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, including wide range voltage input with redundant power design 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. They are the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions are harsh and critical.

Model No.	LT-IS6328G-4GX16GT8GC-U/LT-IS6328G-4GX16GT8GC-U-D		
Interface	1G/2.5G Fiber ports	10/100/1000M RJ45	Gigabit Combo
	4	16	8
Ethernet	16*10/100/1000Base-T RJ45 8*COMBO SFP/RJ45 4*1000/2500Base-X SFP		
Management port	1*RJ45 Console port (115200,8,N,1) , 1*USB 2.0 for configuration and firmware update		
Data & Alarm 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 IEEE802.3x Flow Control and Back Pressure		
	IEEE 802.1D Spanning Tree Protocol		

Technical specification

	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	Ι		
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	
	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 writ	ing the data from USB flash drive	
ALM(Fault status indicator) Red	Off: Device on normal working state	On: Fault alarm	
	Off: ports link down		
1-24 (Copper ports indicators) Green	On: ports link up		
	Blinking: data on TX/RX		
1-24(Copper speed	Off: ports on 10/100M		
indicators) Yellow	On: ports on 1000M		
	Off: ports link down		
17-28 (Fiber ports indicators) Green	On: ports link up		
oreen	Blinking: data on TX/RX		
Power parameter			
Input voltage	36-75V DC 100~240V AC redundant power input		
Input current	1A DC/AC input Max		
Total power consumption	Full loading ≤32W		
Connector	Removable 2*2-pin terminal block(DC/DC) 3-pin AC socket(AC/AC)		
Reverse polarity protection	Support		
Over-voltage protection	Support		

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Over-current protection	Support	
Layer 2 functions		
Port aggregation	Support GE port aggregation	
	Support 2.5GE aggregation	
	Support static aggregation	
	Support LACP dynamic aggregation	
	Up to 64 aggregation groups and up to 8 ports per group	
	Support IEEE802.3x flow control,	
	Support interface counters,	
	Support port isolation,	
Port features	Port mirroring (One-to-One, Many-to-One)	
	Support loop detection(Port-based; VLAN-based)	
	Support broadcast storm suppression(broadcast; unknown multicast;	
	unknown unicast)	
	Support static Mac-address management	
Mac-address table	Support dynamic Mac-address Management	
management	Support filtering Mac-address	
5	Support MAC limit based on port and VLAN	
	Support MAC flapping based on port and VLAN	
	Support access mode	
VLAN	Support trunk mode	
	Support hybrid mode	
	Mac Based VLAN	
VLAN classification	IP Based VLAN	
	Protocol Based VLAN	
	Normal mode	
GVRP	Fixed mode	
	Forbidden mode	
	Port-based QinQ	
QinQ	VLAN-based QinQ (VLAN-stacking; VLAN-mapping)	
	Flow-based QinQ	
LLDP	LLDP (Link Layer Discovery Protocol)	
	Support IEEE802.1D-STP	
	Support IEEE802.1W-RSTP	
Ring network protocol	Support IEEE802.1S-MSTP	
	Support G.8032 ERPS protocol, single ring, sub Ring and major ring	
	Recovery time ≤20ms	
L2 Multicast		

IGMP snooping	Support IGMP snooping
Group address	Support group address
Security functions	
ACL	IP Standard ACL
	MAC extend ACL
	IP extend ACL IPv6 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
	Port access control
802.1x	Mac-address access control
	RADIUS server
Port-security	Port-security
IP source guard	IP Port/MAC binding
ARP-check	Support ARP-check and ARP packet filtering for illegal users
Access control	Support Telnet/SSH/HTTP/HTTPS user access control
Management & Maintenance	functions
User Management	Support password protection Support user authorization management
SNMP	Support user authorization management Supporting SNMP V1/V2C/V3 version
	Web Management
Web Management	Support HTTP V1.1
web Management	Support HTTPS
CLI management	Console/Telnet command line management
RMON	Support RMON(Remote Monitoring) alarm
Firmware upgrade	Firmware upgrade
Fault Detection	Ping/Tracerout
	Dying gasp
	Support optical transceiver DDM function
Cable detection	Support copper port cable detection
NTP	Network Time Protocol

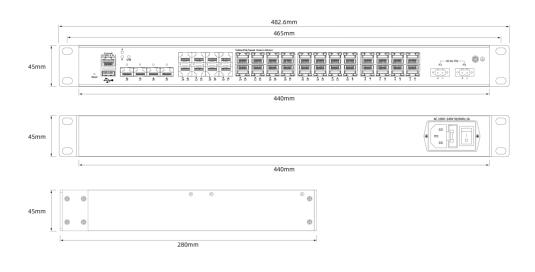
Syslog/Debug	Syslog/Debug Syslog send to three servers	
Configuration import/export	Support FTP/TFTP remote import/export Support USB import/export	
Dual partition management	Support dual partition switching	
Application Protocol Function	S	
DHCP Snooping	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82	
DHCP client	Support DHCP client	
Telnet server	Support telnet server	
Telnet client	Support telnet client	
SSH server	Support SSH server	
TACACS	Support TACACS(the terminal access controller accesses the control system)	
sflow	Support network traffic analysis	
TFTP	Support TFTP Client	
Layer 3 functions	Layer 3 functions	
ARP	ARP table aging	
DHCP server	DHCP server	
IPv4 / IPv6	static routing	
Switching features		
Switching capacity	68Gbps	
Packet forwarding rate	101Mpps	
MAC address table	16K	
VLAN	4К	
Buffer	12Mbit	
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*45*280mm		
Weight	LT-IS6228G-4GX16GT8GC-U: 5.2kg; LT-IS6228G-4GX16GT8GC-U-D: 5.3kg		
Operating environment	·		
Operating temperature	-40°C~+ 80°C		
Storage/transportation temperature	-40°C~+ 85℃		
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/UKCA/RoHS/REACH/FCC		
МТВЕ	> 200,000 hours		
Warranty	5 years		

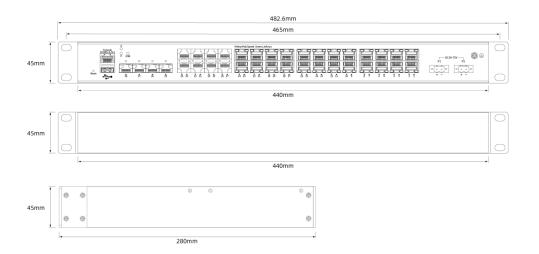


Structure diagram

LT-IS6328G-4GX16GT8GC-U-AC/DC

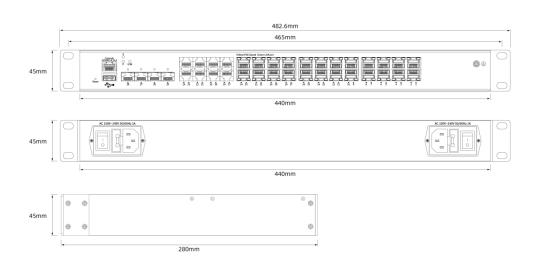


LT-IS6328G-4GX16GT8GC-U-2DC

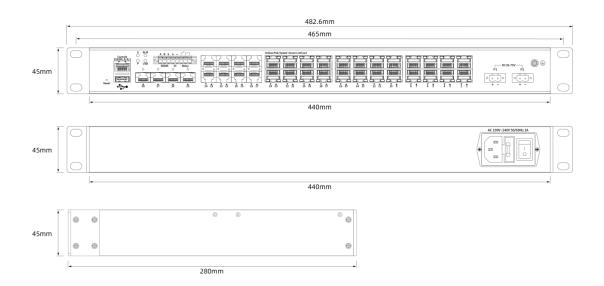


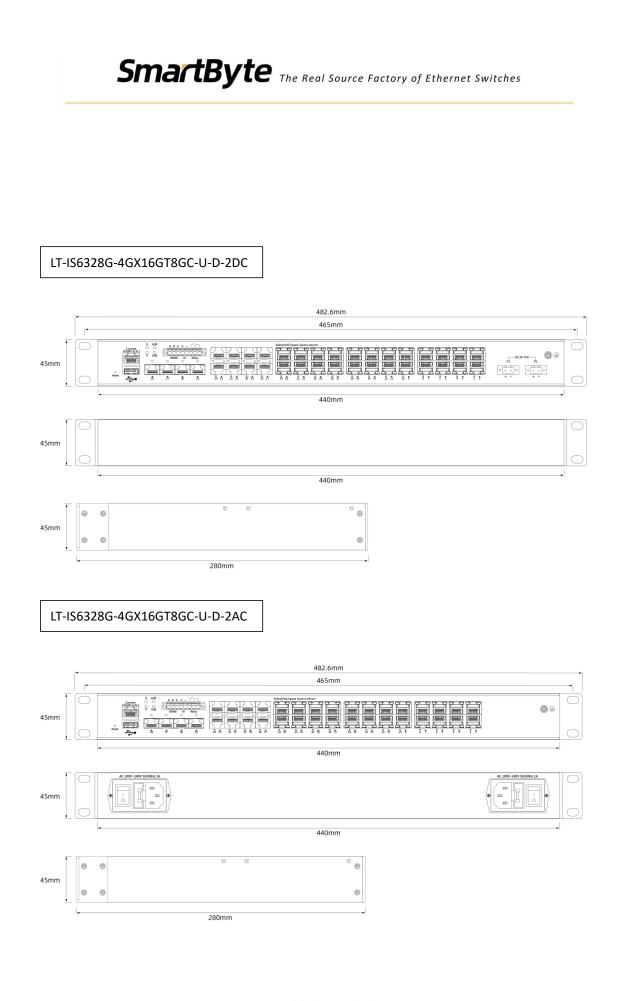


LT-IS6328G-4GX16GT8GC-U-2AC



LT-IS6328G-4GX16GT8GC-U-D-AC/DC





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Order information

Model	Description
LT-IS6328G-4GX16GT8GC-U	L2+ Managed rack-mount industrial Ethernet switch with 4*1000/2500Base-X
	SFP ports , 16*10/100/1000Base-T RJ45 and 8*1G Combo RJ45/SFP
	ports.Support redundant AC/AC, AC/DC, DC/DC; Operation temperature -40°C
	to 80 °C.
LT-IS6328G-4GX16GT8GC-U-D	L2+ Managed rack-mount industrial Ethernet switch with 4*1000/2500Base-X
	SFP ports , 16*10/100/1000Base-T RJ45 and 8*1G Combo RJ45/SFP ports.
	Support DI/DO and RS485, redundant AC/AC, AC/DC, DC/DC; Operation
	temperature -40°C to 80 °C.