

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

L2+ Managed Industrial Rack-mount Ethernet Switch

LT-IS6328XG-4XS16GT8GC-U Series



Features:

- 16*10/100/1000Base-T, 8*1G Combo RJ45/SFP, 4*1G/2.5/10GBase-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

Overview

The SmartByte LT-IS6328XG-4XS16GT8GC-U series are highly reliable Layer 2+ managed industrial Ethernet switches with 16-port 10/100/1000Base-T RJ45, 8-port 1000Base Combo and 4-port 1G/2.5G/10GBase-X SFP+. With full gigabit downlink and 10G uplink 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-IS6328XG-4XS16GT8GC-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.

Technical specification

Model No.	LT-IS6328XG-4XS16GT8GC-U/LT-IS6328XG-4XS16GT8GC-U-D		
Interface	1G/2.5G/10G Fiber ports	10/100/1000M RJ45	Gigabit Combo
	4	16	8
Ethernet	16*10/100/1000Base-T RJ45 8*COMBO SFP/RJ45 4*1G/2.5G/10GBase-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		

	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
1-24 (Copper ports indicators) Green	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
1-24 (Copper speed indicators) Yellow	Off: ports on 10/100M	
	On: ports on 1000M	
17-28 (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	1A DC/AC input Max	
Total power consumption	Full loading ≤36W	
Connector	Removable 2*2-pin terminal block(DC/DC) 3-pin AC socket(AC/AC)	
Reverse polarity protection	Support	

Over-voltage protection	Support
Over-current protection	Support
Layer 2 functions	
Port aggregation	Support GE port aggregation Support 2.5GE aggregation Support 10GE aggregation Support static aggregation Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group
Port features	Support IEEE802.3x flow control Support interface counters Support port isolation Port mirroring (One-to-One, Many-to-One) Support loop detection(Port-based; VLAN-based) Support broadcast storm suppression(broadcast; unknown multicast; unknown unicast)
Mac-address table management	Support static Mac-address management Support dynamic Mac-address Management Support filtering Mac-address Support MAC limit based on port and VLAN Support MAC flapping based on port and VLAN
VLAN	Support access mode Support trunk mode Support hybrid mode
VLAN classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN
GVRP	Normal mode Fixed mode Forbidden mode
QinQ	Port-based QinQ VLAN-based QinQ (VLAN-stacking; VLAN-mapping) Flow-based QinQ
LLDP	LLDP (Link Layer Discovery Protocol)
Ring network protocol	Support IEEE802.1D-STP Support IEEE802.1W-RSTP 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
QoS	Support QoS Class, remarking Support SP, WRR queue scheduling Ingress port-based rate-limit Egress port-based rate-limit Support policy-based QoS
802.1x	Port access control 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	Supporting SNMP V1/V2C/V3 version
Web Management	Web Management Support HTTP V1.1 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 Functions	
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	
ARP	ARP table aging
DHCP server	
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*45*280mm
Weight	LT-IS6328XG-4XS16GT8GC-U:5.2kg; LT-IS6328XG-4XS16GT8GC-U-D:5.3kg
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), 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/UKCA/RoHS/REACH/FCC
MTBF	> 200,000 hours
Warranty	5 years

Structure diagram

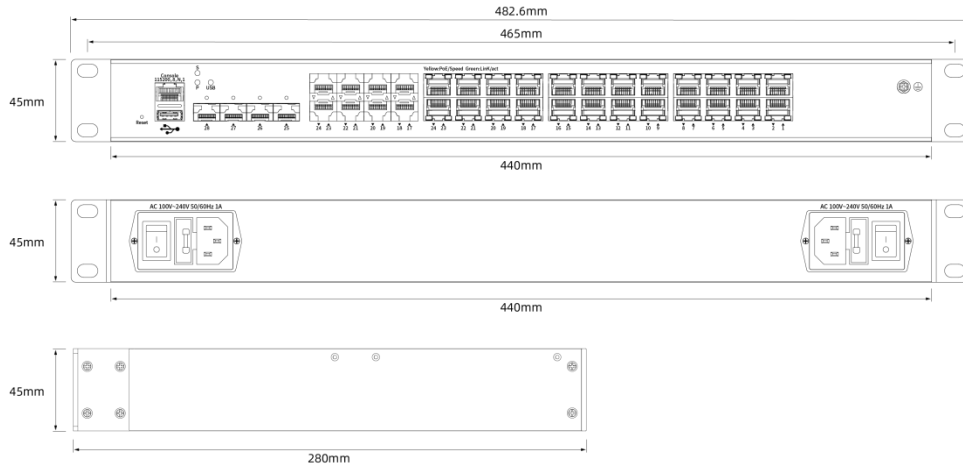
LT-IS6328XG-4XS16GT8GC-U-AC/DC



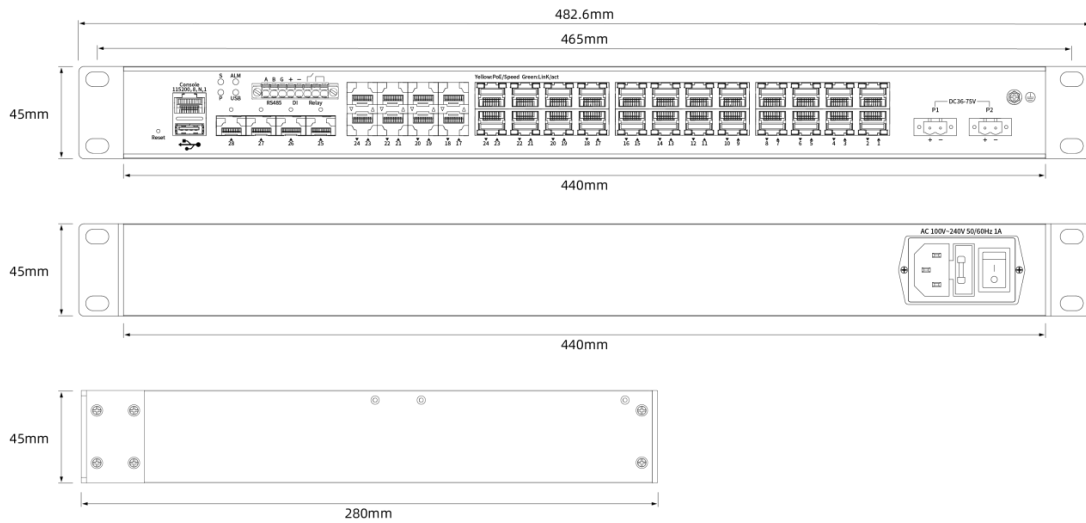
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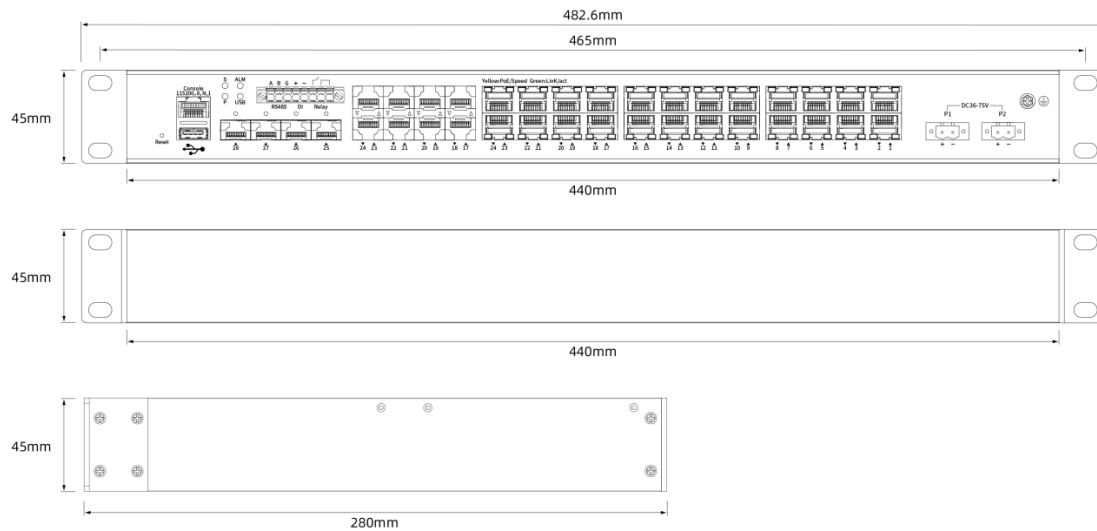
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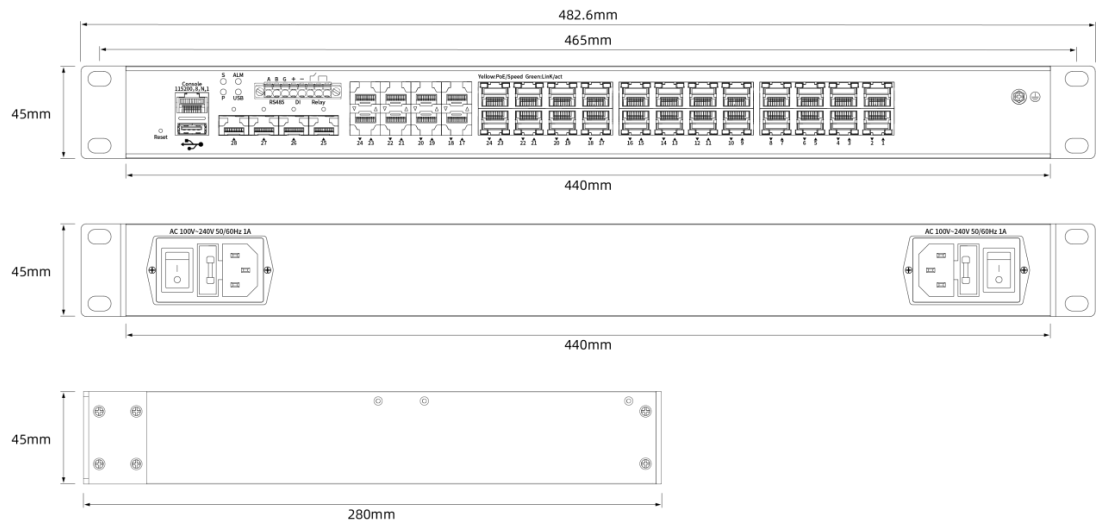
LT-IS6328XG-4XS16GT8GC-U-D-AC/DC



LT-IS6328XG-4XS16GT8GC-U-D-2DC



LT-IS6328XG-4XS16GT8GC-U-D-2AC



Order information

Model	Description
LT-IS6328XG-4XS16GT8GC-U	L2+ Managed rack-mount industrial Ethernet switch with 4*1G/2.5G/10GBase-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-IS6328XG-4XS16GT8GC-U-D	L2+ Managed rack-mount industrial Ethernet switch with 4*1G/2.5G/10GBase-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.