

24*10/100/1000Base-T + 4*1G/2.5G/10GBase-X SFP+

Layer 2+ Managed Industrial Rack-mount PoE++ Switch LT-IS6328XGP-4XS24GT-U-2BT series



Features:

- > 24*10/100/1000Base-T PoE, 4*1G/2.5G/10GBase-X SFP
- > DC/DC redundant power supply with polarity reverse/over-voltage/over-current protection
- ➤ Complies with IEEE802.3af PoE, IEEE802.3at PoE+ and IEEE802.3bt PoE++ standard
- > 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, PoE 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 ~+ 75 °C



Overview

The SmartByte LT-IS6328XGP-4XS24GT-U-2BT is the highly reliable Layer 2+ managed industrial PoE switch with 24-port 10/100/1000Base-T PoE and 4-port 1G/2.5G/10GBase-X SFP+. It complies with IEEE802.3af PoE, IEEE802.3at PoE+, IEEE802.3bt PoE++ standard protocol, the Max power output consumption per port can reach 90W (1-2 ports), which are the idea solution for those high power consumption industrial networking PDs. 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, G.8032 ERPS, MSTP/RSTP/STP redundancy technologies, Layer 3 IPv4/IPv6 static routing features and powerful Layer 2 management and secure function, which all making them ideal for large-scale industrial networks.

LT-IS6328XGP-4XS24GT-U-2BT is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range voltage input 44-57VDC, redundant power design with DC/DC, robust IP40 fan-less housing with rack-mount 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-IS6328XGP-4XS24GT-U-2BT/LT-IS6328XGP-4XS24GT-U-D-2BT	
Interface	Fiber ports	Copper RJ45 ports
	4	24
Ethernet	24*10/100/1000Base-T RJ45 PoE/PoE+ (1-2 ports support PoE++ 90W) 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 IEEE 802.3ae 10GBase-X Ethernet IEEE 802.3x Flow Control and Back PressuleEE 802.1D Spanning Tree Protocol	ure

	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	
	IEEE802.3af PoE IEEE802.3at PoE+	
	IEEE 802.3bt PoE++	
LED Indicators	1222 302.3301 02.1	
LED indicators	T	
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 d	etected by device
USB (USB status indicator)	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
	Off: ports link down	
1-24 (Copper ports indicators) Green	On: ports link up	
,	Blinking: data on TX/RX	
1-24 (PoE status indicators) Yellow	Off: PoE not working	
	On: PoE working	
	Off: ports link down	
25-28 (Fiber ports indicators) Green	On: ports link up	
	Blinking: data on TX/RX	
Power parameter		
Input voltage	44-57VDC(802.3af)	
	52-57VDC(802.3at/802.3bt) redundant power input	
Input current	9A DC input Max	
	Full loading without PoE≤32W	
Total power consumption	PoE power budget ≤ 370W	

Connector	Removable 2*2-pin terminal block
Reverse polarity protection	Support
Over-voltage protection	Support
Over-current protection	Support
Layer 2 functions	
	Support 3 FGE aggregation
Port aggregation	Support 2.5GE aggregation Support 10GE aggregation
Port 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
	Support dynamic Mac-address Management
Mac-address	Support filtering Mac-address
table management	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
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
ming herwork brotocol	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	
	IP Standard ACL
۸۵	MAC extend ACL
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	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

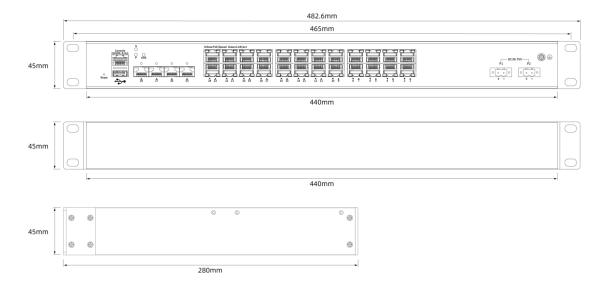
Fault Detection	Ping/Tracerout Dying gasp Support optical transceiver DDM function	
Cable detection	Support copper port cable detection	
PoE management	Support 802.3af/802.3at/802.3bt	
	Support PD watchdog	
	Support PoE priority management	
	Support Max PoE power configuration for each port	
	Support alarm waterline configuration	
	Support reserved power configuration	
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	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	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-IS6328XGP-4XS24GT-U-2BT:5.3kg; LT-IS6328XGP-4XS24GT-U-D-2BT:5.4kg
Operating environment	
Operating temperature	-40°C~+ 75°C
Storage/transportation temperature	-40°C~+ 85°C
Relative humidity	Operation humidity: 10%-90%RH
Industrial Standard	Storage humidity: 5%-95%RH
	Surge protection of power: IEC 61000-4-5 DC:6KV/6KV (8/20us)
	Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us)
EMS	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

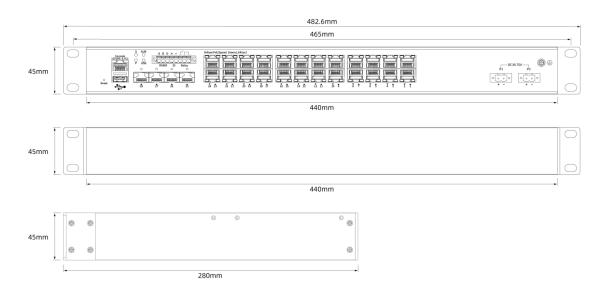
	ESD: IEC 61000-4-2 Contact: 8K; Air: 15K
EMI	FCC Part 15B Class A
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Certification	CCC/CE/UKCA/RoHS/REACH/FCC
MTBF	> 200,000 hours
Warranty	5 years

Structure diagram

LT-IS6328XGP-4XS24GT-U-2BT



LT-IS6328XGP-4XS24GT-U-D-2BT





Order information

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	4*1G/2.5G/10GBase-X SFP+ ports, 24*10/100/1000Base-T RJ45 PoE ports (1-2
	ports support PoE++ 90W). Dual DC 44-57V input; Operation temperature
	-40°C to 75 °C
LT-IS6328XGP-4XS24GT-U-D-2BT	Layer 2+ managed rack-mount industrial PoE switch with
	4*1G/2.5G/10GBase-X SFP+ ports, 24*10/100/1000Base-T RJ45 PoE ports (1-2
	ports support PoE++ 90W). Dual DC 44-57V input, Support DI/DO/RS485;
	Operation temperature -40°C to 75 °C