

## 16\*10/100/1000Base-T PoE/PoE+ Industrial PoE Switch

LT-IS6016GP-16GT



### Features:

- 16\*10/100/1000Base-T RJ45 PoE/PoE+ ports
- DC 44-57V input, redundant power supply with polarity reverse/over-voltage protection
- Support one output relay alarm (terminal block Pin 5/6)
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Support powerful Dip switch function:
  - 1. Link aggregation; 2. 250m long distance (1-4 ports); 3. QoS (1-2 ports); 4. PoE watchdog
- Support 10K Bytes Jumbo frame
- 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-IS6016GP-16GT is the highly reliable industrial PoE switch with 16-port 10/100/1000-T PoE/PoE+. It complies with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. Moreover, it is also featuring with port isolation, 250m long distance transmission mode(1-4 ports), QoS(1-2 ports) and PoE watchdog function, which all can be configured by the Dip switch on the top panel

LT-IS6016GP-16GT is a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range power input 44-57VDC, 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 crucial

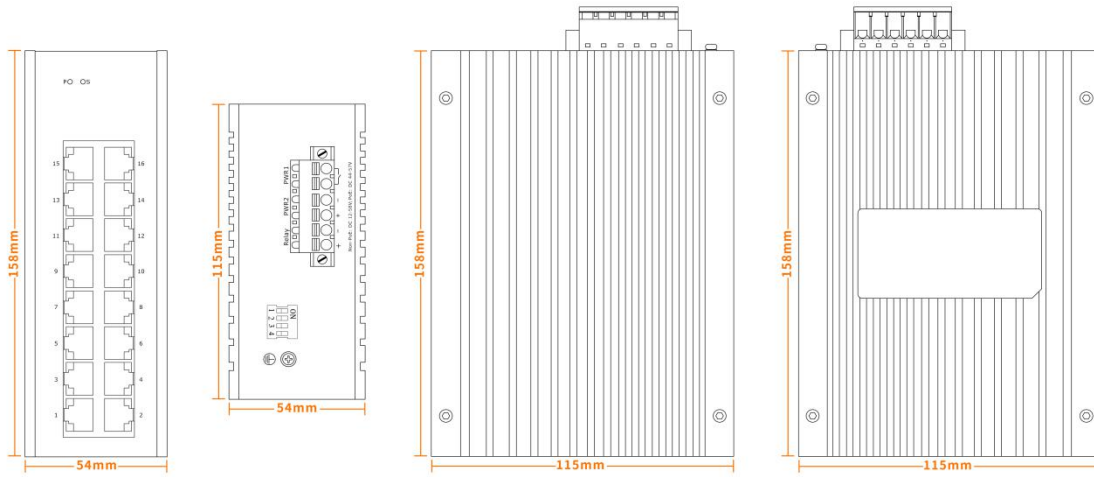
## Technical specification

<b>Model No.</b>	LT-IS6016GP-16GT	
<b>Interface</b>	Fiber ports	Copper RJ45 ports
	0	16
<b>Ethernet</b>	16*10/100/1000Base-T PoE/PoE+	
<b>Alarm port</b>	One relay output for power failure. Alarm relay current carry ability: 1A@24VDC	
<b>Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af Power-Over-Ethernet IEEE 802.3at Power Over Ethernet plus PSE	
<b>Dip Switch</b>	1. Port isolation 2. 250m long distance mode(1-4 ports) 3. QoS(1-2 ports) 4. PoE watchdog	
<b>LED Indicators</b>		
P(Power indicator) <b>Green</b>	Off: the device is power off or failed	
	On: the device power on is normal	

S(PoE usage indicator) Red	Off: total PoE usage < rated 50%	
	Blinking: rated 50% < total PoE usage < rated 90%	
	Normal on: total PoE usage ≥ rated 90%	
1-16 (Copper ports)	Green indicators	Yellow indicators
	Off: ports link down	Off: PoE not working
	On: ports link up	On: PoE working
	Blinking: receiving data	
<b>Power parameters</b>		
Input voltage	44-57VDC, redundant power input	
Input current	0.7A Max	
Total power consumption	Full loading without PoE ≤8W PoE power budget ≤240W	
Connector	Removable 6-pin terminal block, pin 5/6 for relay alarm output	
Reverse polarity protection	Support	
Over-voltage protection	Support	
Over-current protection	Support	
<b>Switching features</b>		
Switching capacity	32G	
Packet forwarding rate	47.6Mpps	
MAC address table	8K	
VLAN	4K	
Buffer	2M	
Forwarding delay	<5us	
Jumbo Frame	Support 10Kbytes	
MDX/MIDX	Support	
Watchdog	Support	
<b>Network Topology</b>		
Star topology	Support	

Bus topology	Support
Tree Topology	Support
<b>Mechanical structure</b>	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	54*115*158mm
Weight	1.39 Kg
<b>Operating environment</b>	
Operating temperature	-40℃~+75℃
Storage/transportation temperature	-40℃~+85℃
Relative humidity	5%~95% (non-condensing)
<b>Industry standard</b>	EMI: FCC Part 15B Class A
	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 power interface: 4K; Ethernet ports: 2K
	CS: IEC 61000-4-6 10V
	ESD: IEC 61000-4-2 Level 4 (8K/15K)
	Shock: IEC 60068-2-27
	Free fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6
<b>Certification</b>	CCC/CE/FCC/RoHS
<b>Warranty</b>	5 years

## Structure diagram



## Order information

Model	Description
LT-IS6016GP-16GT	Industrial PoE switch with 16*10/100/1000Base-T RJ45 PoE ports , complies with IEEE802.3af, IEEE802.3at standard, DC44-57V input, redundant dual power supply, Din-rail installation. Operation temperature: -40℃ ~ +75℃