16*10/100/1000Base-T Industrial Ethernet Switch

LT-IS6016G-16GT

Features:

➢ 16*10/100/1000Base-T RJ45 ports

➢ Redundant power DC 12-58V input with polarity reverse/over-voltage/over-current protection

➢ Support one output relay alarm(terminal block Pin 5/6) for DC power failure

➢ Support powerful Dip switch function:

   1.Port isolation; 2. Flow control; 3. QoS(1-2 ports) ; 4.Broadcast storm restrain

➢ 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 ℃ ~+75℃

Overview

The SmartByte LT-IS6016G-16GT is the highly reliable industrial Ethernet switch with 16-port 10/100/1000-T RJ45 . It is featuring with port isolation, flow control, QoS(1-2 ports) and broadcast storm restrain function, which all can be configured by the Dip switch on the top panel

LT-IS6016G-16GT is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range power input 12-58VDC, 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 critical
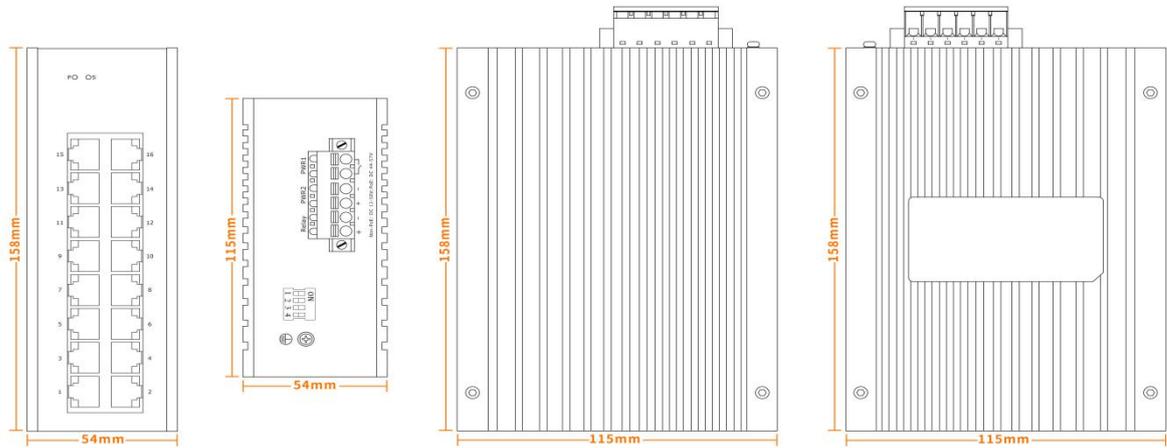
Technical specification

Model No.	LT-IS6016G-16GT	
Interface	Fiber ports	Copper RJ45 ports
	0	16
Ethernet	16*10/100/1000Base-T	
Alarm port	One relay output for power failure. Alarm relay current carry ability: 1A@24VDC	
Standard	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	
Dip Switch	1. Port isolation 2. Flow control 3. QoS(1-2 ports) 4. Broadcast storm restrain	
LED Indicators		
P(Power indicator) Green	Off: the device is power off or failed	
	On: the device power on is normal	
S(System indicator) Red	Off: the chip is normal	
	On: the chip read/write is unnormal	
1-16 (Copper ports)	Green indicators	Yellow indicators

	Off: ports link down	Off: port on 10/100M
	On: ports link up	On: port on 1000M
	Blinking: data on TX/RX	
Power parameters		
Input voltage	12-58VDC, redundant power input	
Input current	5.6A Max	
Total power consumption	Full loading≤8W	
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	
Switching features		
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	
Network Topology		
Star topology	Support	
Bus topology	Support	
Tree Topology	Support	
Mechanical structure		
Case protection	IP40	

Installation method	Din-rail
Dimension(W*D*H)mm	54*115*158mm
Weight	1.37 Kg
Operating environment	
Operating temperature	-40℃~+75℃
Storage/transportation temperature	-40℃~+85℃
Relative humidity	5%~95%（non-condensing）
Industry standard	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
Certification	CCC/CE/FCC/RoHS
Warranty	5 years

Structure diagram

Order information

Model	Description
LT-IS6016G-16GT	Industrial Ethernet switch with 16*10/100/1000Base-T RJ45 ports, DC12-58V input, redundant dual power supply, Din-rail installation. Operation temperature: -40℃～+75℃