4*10/100Base-TX + 1*100Base-FX SFP Industrial Ethernet Switch

LT-IS3005F-1FX4TX

Features:

➤ 4*10/100Base-TX RJ45 ports, 2*100Base-FX SFP fiber ports

➤ DC 12~58V input, redundant power supply with polarity reverse/over-voltage protection

➤ Dip switch function: 1.Port isolation; 2. Flow control; 3. QoS; 4. Broadcast storm restrain

➤ Support 9K Bytes Jumbo frame

➤ Support 4KV 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-IS3005F-1FX4TX is the unmanaged industrial grade Ethernet switch with 4-port 10/100Base-TX RJ45 and 2-port 100Base-FX fiber optical interfaces. 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-IS3005F-1FX4TX is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, such as wide range power input 12-58VDC, redundant power design with polarity reverse/over-voltage 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 and so on. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions exceed commercial product specifications
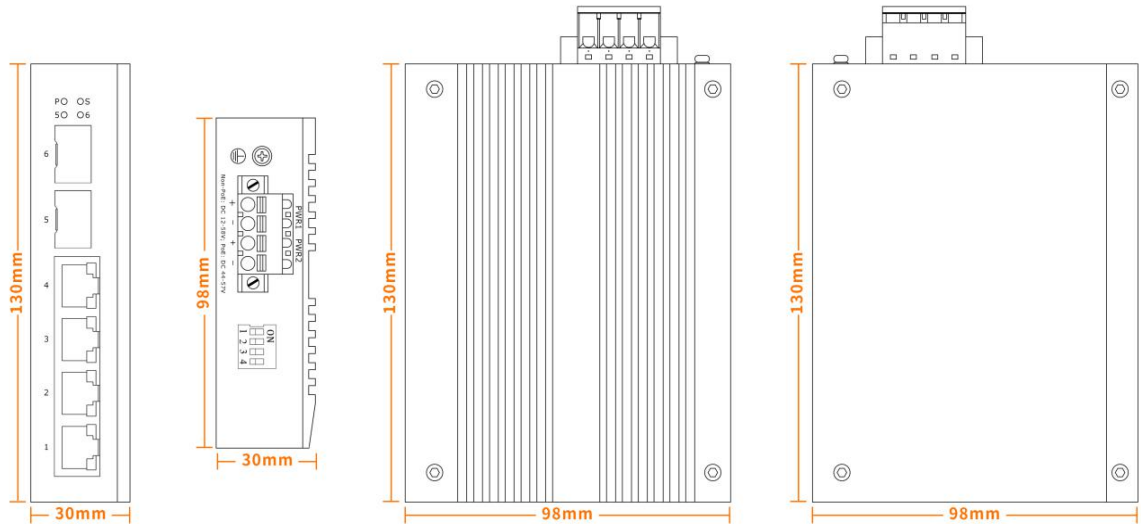
Technical specification

Model No.	LT-IS3005F-1FX4TX	
Interface	Fiber ports	Copper RJ45 ports
	1	4
Ethernet	4*10/100Base-TX RJ45 1*100Base-FX SFP	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast 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

		Green indicators	Yellow indicators
	1-4(Copper ports)	Off: ports link down	Off: port speed is 10M
		On: ports link up	On: port speed is 100M
		Blinking: data on TX/RX	
	5-6 (Fiber ports) Green	Off: ports link down	
		On: ports link up	
		Blinking: data on TX/RX	

Power parameters	
Input voltage	12-58VDC, redundant power input
Input current	0.5A Max
Total power consumption	Full loading ≤3W
Connector	Removable 4-pin terminal block
Reverse polarity protection	Support
Over-voltage protection	Support

Switching features	
Switching capacity	1G
Packet forwarding rate	1.48 Mpps
MAC address table	2K
VLAN	2K
Buffer	2Kbits
Forwarding delay	<100us
Jumbo Frame	Support 9Kbytes
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	30*98*130mm
Weight	0.55 kg
Operating environment	
Operating temperature	-40℃~+75℃
Storage/transportation temperature	-40℃~+85℃
Relative humidity	5%~95%（non-condensing）
Industrial Standard	Surge protection of power: IEC 61000-4-5　Level 3 (4KV/2KV)　（8/20us）
	Surge protection of Ethernet ports: IEC 61000-4-5　Level 3 (4KV/2KV)（10/700us）
	DIP: IEC 61000-4-11　Level 3（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-IS3005F-1FX4TX	10/100Base-TX to 100Base-FX unmanaged industrial Ethernet switch with 4*10/100Base-TX RJ45 ports and 2*100Base-FX SFP slots, DC12-58V input, redundant dual power supply, Din-rail installation. Fiber ports transmission distance depending on the SFP module; Operation temperature: -40℃～+75℃