

4*10/100Base-TX + 1*100Base-FX

Managed Industrial Ethernet Switch

LT-IS3205F-1FX4TX Series



Features:

- 4*10/100Base-TX RJ45 ports, 2*100Base-FX SFP(SC/FC/ST optional) ports
- DC 12~58V input, redundant power supply with polarity reverse/over-voltage protection
- Support Layer 2 management function:
 - VLAN/Port Mirroring/IGMP/QoS/LLDP/802.1X/Fiber transceiver DDM
 - /IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time ≤20ms
- Support 4KV 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-IS3205F-1FX4TX series are highly reliable managed industrial Ethernet Switches with 4-port 10/100Base-TX and 1-port 100Base-FX fiber optical interface. They support ERPS redundant network and the self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your back-up solution. LT-IS3205F-1FX4TX series support Web/SNMP/Telnet management, the managed features are such as QoS, VLAN, IGMP, Port mirroring, 802.1X, LLDP, Fiber transceiver DDM, IPV6 management and so on.

LT-IS3205F-1FX4TX series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, including wide range power input 12-58VDC, redundant power design with polarity reverse 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

Model No.	LT-IS3205F-1FX4TX	
Interface	Fiber port	Copper RJ45 ports
	1	4
Ethernet	4*10/100Base-TX RJ45 1*100Base-FX SFP (SC/ST/FC optional)	
Management port	1*RJ45 Console	
Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3x flow control and back pressure IEEE 802.1D spanning tree protocol IEEE 802.1w rapid spanning tree protocol IEEE 802.1Q VLAN tagging ITU-T G.8032 ERPS IEEE 802.1X port authentication network control IEEE 802.1ab LLDP IEEE 802.3ad LACP	

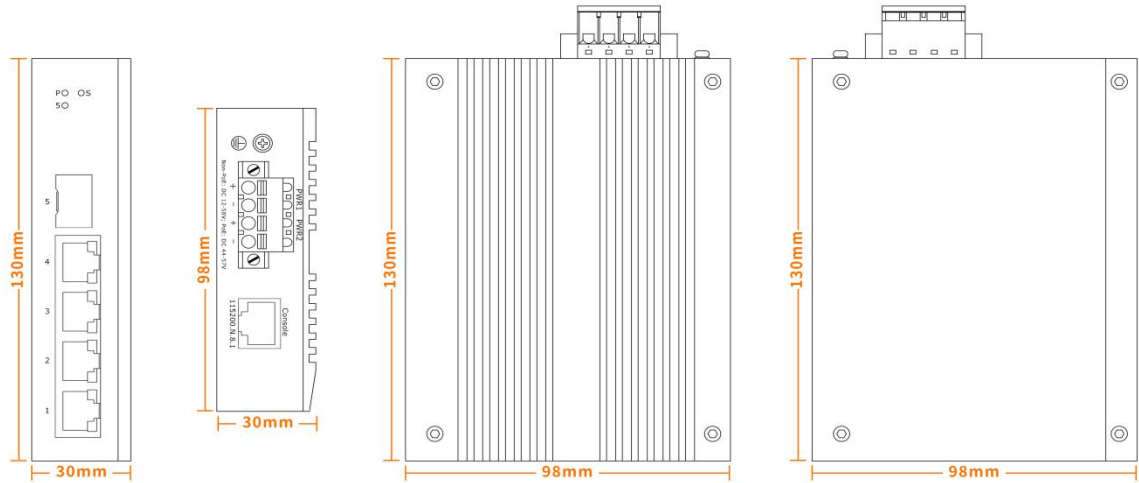
LED Indicators		
P(Power indicator) Green	Off: the device is power off or failed	Off: the device is power off or failed
S(System status indicator)	Blinking: device initialization	On: device on normal operation
1-4 (Copper ports)	Green	Yellow
	Off: ports link down	Off: port speed on 10M
	On: ports link up	On: port speed on 100M
	Blinking: data on TX/RX	
5 (fiber port) Green	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
Power parameter		
Input voltage	12-58VDC, redundant power input	
Input current	0.5A Max	
Total consumption	Full loading ≤ 5 W	
Connector	Removable 4-pin terminal block	
Reverse polarity protection	Support	
Over-voltage protection	Support	
Layer 2 function		
Port aggregation	Support static aggregation Support dynamic aggregation	
Port features	Support IEEE802.3x flow control, Support Port traffic statistics Support port isolation Support network storm suppression based on port bandwidth percentage	
VLAN	Support access mode Support trunk mode Support hybrid mode	
Port mirroring	Support many to one port mirroring	
Ring network protocol	Support STP、RSTP	

	Support G.8032 ERPS protocol , single ring, sub Ring and associated sub ring Recovery time ≤20ms
Multicast	IGMP V1,V2,V3 IGMP snooping
QoS	Ingress Port-based Rate-limit Egress Port-based Rate-limit
Security features	Support 802.1x, port authentication, MAC authentication, RADIUS service Support port isolation
Management and maintenance	Support LLDP Support user management and login authentication Support SNMPV1/V2C/V3 Support web management, HTTP1.1, HTTPS Support Syslog and alarm grading Support RMON(Remote Monitoring) alarm Support NTP Support Ping , Tracert Support optical transceiver DDM function Support TFTP Client Support Telnet Server Support SSH Server Support IPv6 Management Support TFTP, web upgrading
Switching features	
Switching capacity	1Gbps
Packet forwarding rate	1.48Mpps
MAC address table	8K
VLAN	4K
Buffer	1M bit
Forwarding delay	<100us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
Mechanical structure	

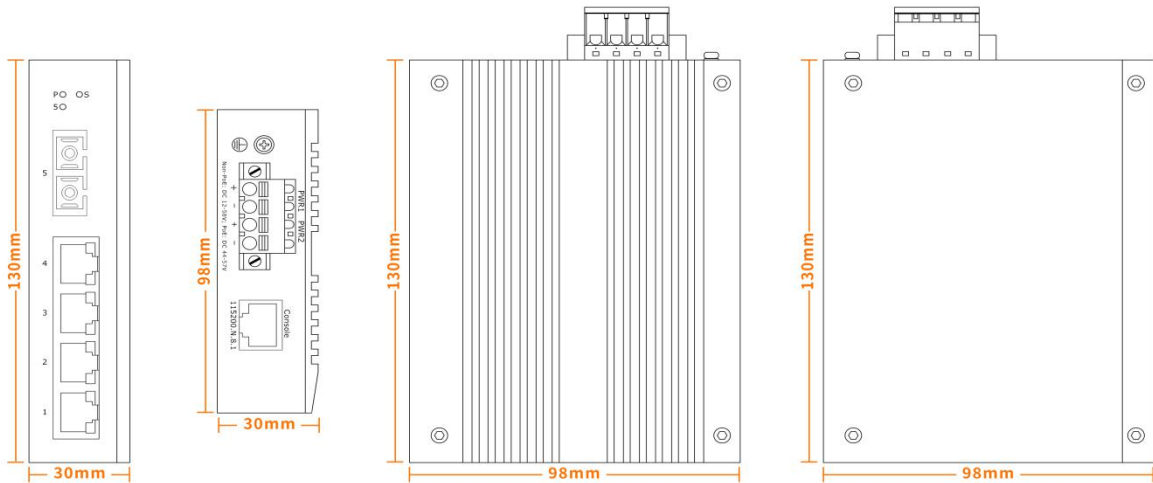
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	30*98*130mm
Weight	0.55 kg
Operating environment	
Operating temperature	-40°C~+75°C
Storage/transportation temperature)	-40°C~+85°C
Relative humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH
Industrial Standard	Surge 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

SFP model



SC/FC/ST model



Order information

Model	Description
LT-IS3205F-1FX4TX	Managed industrial Ethernet switch with 4*10/100Base-TX RJ45 ports and 1*100Base-FX SFP slot, DC12-58V input, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40°C ~+75°C
LT-IS3205F-1FX4TX-SC	Managed industrial Ethernet switch with 4*10/100Base-TX RJ45 ports and 1*100Base-FX SC port, DC12-58V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C ~+75°C
LT-IS3205F-1FX4TX-FC	Managed industrial Ethernet switch with 4*10/100Base-TX RJ45 ports and 1*100Base-FX FC port, DC12-58V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C ~+75°C
LT-IS3205F-1FX4TX-ST	Managed industrial Ethernet switch with 4*10/100Base-TX RJ45 ports and 1*100Base-FX ST port, DC12-58V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C ~+75°C