

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 | |

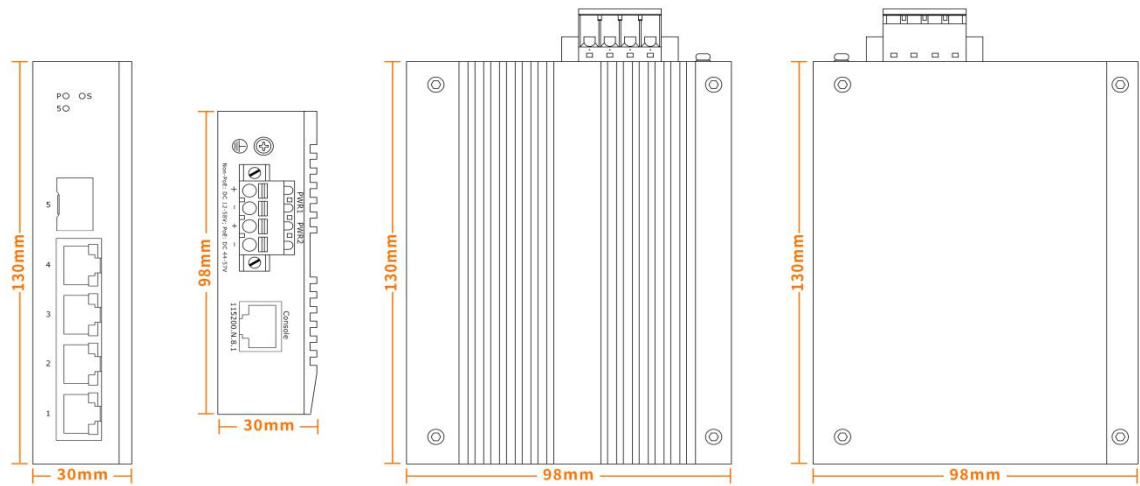
| LED Indicators | | |
|-------------------------------------|---|--|
| P (Power indicator) Green | Off: the device is power off or failed | Off: the device is power off or failed |
| S (System status indicator) | Blinking: device initialization | On: device on normal operation |
| 1-4 (Copper ports) | 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 | |

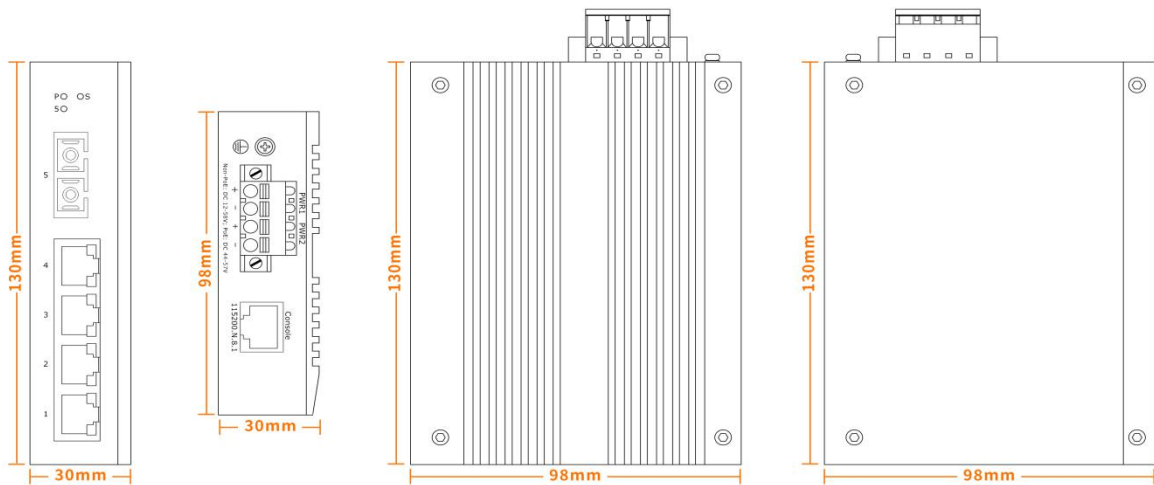
| | |
|-------------------------------------|--|
| Case protection | IP40 |
| Installation method | Din-rail |
| Dimension(W*D*H)mm | 30*98*130mm |
| Weight | 0.55 kg |
| Operating environment | |
| Operating temperature | -40°C~+75°C |
| Storage/transportation temperature) | -40°C~+85°C |
| Relative 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 |