### 8\*10/100Base-TX + 2\*1000Base-X Industrial Ethernet Switch LT-IS3010XF-2GX8TX Series



#### Features:

- > 8\*10/100Base-TX RJ45 ports, 2\*1000Base-X SFP(/SC/ST/FC optional) 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 **10K 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 °C ~+75 °C

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#### Overview

The SmartByte LT-IS3010XF-2GX8TX series are the unmanaged industrial grade Ethernet switch with 8-port 10/100Base-TX RJ45 and 2-port 1000Base-X fiber optical interfaces. They are 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-IS3010XF-2GX8TX series are also high cost-effective easy-to-use devices, which provide 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  $^{\circ}$ C to 75  $^{\circ}$ C as well as high-level EMI/EMC capability and so on. They are the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions exceed commercial product specifications

| Model No.      | LT-IS3010XF-2GX8TX   |  |                   |                   |
|----------------|--|--|-------------------|-------------------|
| Interface      | Fiber ports  |  | Copper RJ45 ports |                   |
|                | 2  |  | 8                 |                   |
| Ethernet       | 8*10/100Base-TX RJ45<br>2*1000Base-X SFP (SC/ST/FC are optional)   |  |                   |                   |
| Standard       | IEEE 802.3 10Base-T Ethernet<br>IEEE 802.3u Fast Ethernet<br>IEEE 802.3ab Gigabit Ethernet<br>IEEE 802.3x Full-Duplex Flow Control<br>IEEE 802.3az Energy Efficient Ethernet |  |                   |                   |
| Dip Switch     | <ol> <li>Port Isolation</li> <li>Flow control</li> <li>QoS(1-2 ports)</li> <li>Broadcast storm restrain</li> </ol>   |  |                   |                   |
| 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    |                   |                   |
|                | 1-8(Copper ports)  | Green indi                             | cators            | Yellow indicators |

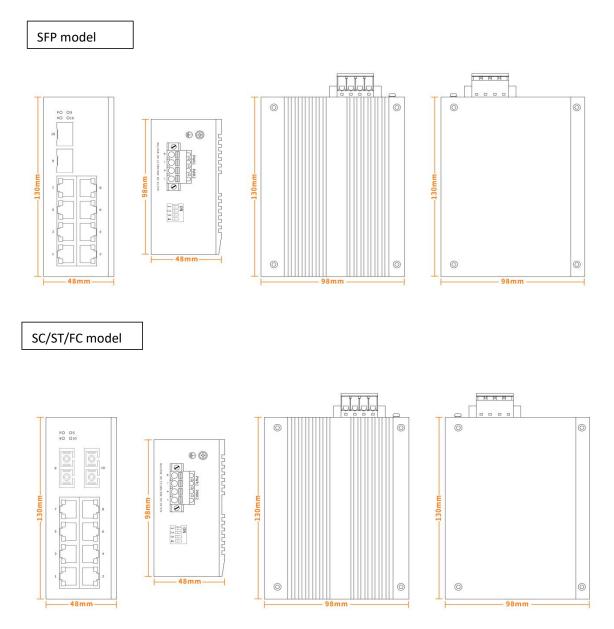
#### **Technical specification**

| On: ports link up         On: ports link up           Blinking: data on TX/RX         On: port speed is 100M           Port Parameters         Off: ports link down           Input voltage         12-58VDC, redundant power input           Input voltage         12-58VDC, redundant power input           Total power consumption         Full loading ≤6W           Concector         Removable 4-pin terminal block           Reverse polarity         Support           Syntching features         Support           Switching capacity         S.6G           Packet forwarding rate         8.3Mpps           MAC address table         8K           Supfort         Suport           VLAN         Support 10Kbytes           Support 10Kbytes         Suport           Suport 10Kbytes         Suport  |                             |                                | 0.00                    | 0.0                    |  |  |
|--|-----------------------------|--------------------------------|-------------------------|------------------------|--|--|
| Binking: data on TX/RX         On: port speed is 100M           Binking: data on TX/RX         Off: ports link down         Off: ports link down           9-10 ( Fiber ports) Green         Off: ports link down         On: ports link up           Binking: data on TX/RX         Binking: data on TX/RX         Power parameters           Input voltage         12-58VDC, redundant power input         On: ports link down           Input voltage         0.5A Max         Imput voltage         Imput voltage           Total power consumption         Full loading s6W         Imput voltage         Imput voltage set           Connector         Removable 4-pin terminal block         Imput voltage polarity         Imput voltage polarity           Support         Support         Imput voltage polarity         Imput voltage polarity         Imput voltage set           Switching capacity         5.6G         Imput voltage         Imput voltage         Imput voltage           MAC address table         8K         Imput voltage         Imput voltage         Imput voltage           VIAN         8K         Imput voltage         Imput voltage         Imput voltage           Imput voltage         Support 10Kbytes         Imput voltage         Imput voltage           Max         Support         Imput voltage         Imput voltage </td <td></td> <td></td> <td>Off: ports link down</td> <td>Off: port speed is 10M</td> |                             |                                | Off: ports link down    | Off: port speed is 10M |  |  |
| Blinking: data on TX/RX     Off: ports link down       9-10 ( Fiber ports) Green     Off: ports link down       Dn: ports link up     Dn: ports link up       Blinking: data on TX/RX     Blinking: data on TX/RX       Power parameters       Power parameters       Input voltage       10: 54 Max     Di: ports link up       Input current     0.54 Max       Connector     Removable 4-pin terminal block       Reverse polarity     Support       Over-voltage protection     Support       Switching features     Support       Switching capacity     5.6G       Packet forwarding rate     8.3Mpps       Buffer     2.Kbits       Forwarding delay     Support 10Kbytes       Jumbo Frame     Support       MX/MIDX     Support       Matchdog     Support       Star topology     Support  |                             |                                | On: ports link up       | On: port speed is 100M |  |  |
| P-10 ( Fiber ports) Green         On: ports link up           Binking: data on TX/RX           Power parameters           Input voltage         12-58VDC, redundant power input           Input current         0.5A Max           Total power consumption         Full Ioading s6W           Connector         Removable 4-pin terminal block           Reverse polarity protection         Support           Switching capacity         S.6G           Packet forwarding rate         8.3Mpps           MAC address table         8K           Suffer         Subjort 10Kbytes           Jumbo Frame         Support 2           Jumbo Frame         Support 10Kbytes           MX/MIDX         Support 2           Sutching capacity         Support 2  |                             |                                | Blinking: data on TX/RX |                        |  |  |
| Binking: data on TX/RX           Power parameters           Input voltage         12-58VDC, redundant power input           Input current         0.5A Max           Total power consumption         Full loading ≤6W           Connector         Removable 4-pin terminal block           Reverse polarity protection         Support           Switching capacity         S.6G           Packet forwarding rate         8.3Mpps           MAC address table         8K           Buffer         2Kbits           Forwarding delay         Support 10Kbytes           Jumbo Frame         Support 10Kbytes           MDX/MIDX         Support           Statchogo         Support   |                             |                                | Off: ports link down    |                        |  |  |
| Power parameters           Input voltage         12-58VDC, redundant power input           Input current         0.5A Max           Total power consumption         Full loading ≤6W           Connector         Removable 4-pin terminal block           Reverse         polarity           protection         Support           Over-voltage protection         Support           Switching features         Support           Switching capacity         5.6G           Packet forwarding rate         8.3Mpps           MAC address table         8K           VLAN         8K           Buffer         2Kbits           Forwarding delay <sus< td="">           Jumbo Frame         Support           MDX/MIDX         Support           Watchdog         Support           Suport         Support</sus<>   |                             | 9-10 ( Fiber ports) Green      | On: ports link up       |                        |  |  |
| Input voltage       12-58VDC, redundant power input         Input current       0.5A Max         Total power consumption       Full loading ≤6W         Connector       Removable 4-pin terminal block         Reverse       polarity         protection       Support         Over-voltage protection       Support         Switching features       5.6G         Switching capacity       5.6G         Packet forwarding rate       8.3Mpps         MAC address table       8K         VLAN       8K         Buffer       2Kbits         Forwarding delay <sup ort<="" td="">         Jumbo Frame       Support         MAtchog       Support         Matchog       Support         Support       Support</sup>  |                             |                                | Blinking: data on TX/RX |                        |  |  |
| Input current       0.5A Max         Total power consumption       Full loading ≤6W         Connector       Removable 4-pin terminal block         Reverse       polarity         support       Support         Over-voltage protection       Support         Switching features       Support         Switching capacity       5.6G         Packet forwarding rate       8.3Mpps         MAC address table       8K         Buffer       2Kbits         Forwarding delay       Support 10Kbytes         Jumbo Frame       Support 10Kbytes         MAtchdog       Support         Support       Support 10Kbytes         Matchdog       Support 10Kbytes         Matchdog       Support 10Kbytes         Matchdog       Support 10Kbytes  | Power parameters            |                                |                         |                        |  |  |
| Total power consumption       Full loading ≤6W         Connector       Removable 4-pin terminal block         Reverse polarity protection       Support         Over-voltage protection       Support         Switching features       Support         Switching capacity       5.6G         Packet forwarding rate       8.3Mpps         MAC address table       8K         VLAN       8K         Buffer       2Kbits         Forwarding delay <sus< td="">         Jumbo Frame       Support         MDX/MIDX       Support         Watchdog       Support         Star topology       Support         Bus topology       Support</sus<>   | Input voltage               | 12-58VDC, redundant power      | r input                 |                        |  |  |
| Connector       Removable 4-pin terminal block         Reverse polarity protection       Support         Over-voltage protection       Support         Switching features       Support         Switching capacity       5.6G         Packet forwarding rate       8.3Mpps         MAC address table       8K         VLAN       8K         Buffer       2Kbits         Forwarding delay       5.upport 10Kbytes         MDX/MIDX       Support         Support       Support         Star topology       Support         Bus topology       Support   | Input current               | 0.5A Max                       |                         |                        |  |  |
| Reverse protection       polarity       Support         Over-voltage protection       Support         Switching features       Support         Switching capacity       S.6G         Packet forwarding rate       8.3Mpps         MAC address table       8K         Suffer       2Kbits         Forwarding delay <sus< td="">         Jumbo Frame       Support 10Kbytes         MDX/MIDX       Support         Vetholog       Support         Star topology       Support</sus<>   | Total power consumption     | Full loading ≤6W               |                         |                        |  |  |
| protectionSupportOver-voltage protectionSupportSwitching featuresSwitching capacity5.6GPacket forwarding rate8.3MppsMAC address table8KVLAN8KBuffer2KbitsForwarding delay<5us  | Connector                   | Removable 4-pin terminal block |                         |                        |  |  |
| Switching features         Switching capacity       5.6G         Packet forwarding rate       8.3Mpps         MAC address table       8K         VLAN       8K         Buffer       2Kbits         Forwarding delay       <5us   | Reverse polarity protection | Support                        |                         |                        |  |  |
| Switching capacity5.6GPacket forwarding rate8.3MppsMAC address table8KVLAN8KBuffer2KbitsForwarding delay<5us   | Over-voltage protection     | Support                        |                         |                        |  |  |
| Packet forwarding rate8.3MppsMAC address table8KVLAN8KBuffer2KbitsForwarding delay<5us   | Switching features          |                                |                         |                        |  |  |
| MAC address table8KVLAN8KBuffer2KbitsForwarding delay<5us  | Switching capacity          | 5.6G                           |                         |                        |  |  |
| VLAN8KBuffer2KbitsForwarding delay<5us   | Packet forwarding rate      | 8.3Mpps                        |                         |                        |  |  |
| Buffer       2Kbits         Forwarding delay       <5us  | MAC address table           | 8К                             |                         |                        |  |  |
| Forwarding delay       <5us  | VLAN                        | 8К                             |                         |                        |  |  |
| Jumbo Frame     Support 10Kbytes       MDX/MIDX     Support       Watchdog     Support       Network Topology     Support       Star topology     Support       Bus topology     Support   | Buffer                      | 2Kbits                         |                         |                        |  |  |
| MDX/MIDX Support<br>Watchdog Support<br>Network Topology<br>Star topology Support<br>Bus topology Support  | Forwarding delay            | <5us                           |                         |                        |  |  |
| Watchdog     Support       Network Topology     Support       Star topology     Support       Bus topology     Support   | Jumbo Frame                 | Support 10Kbytes               |                         |                        |  |  |
| Network Topology       Star topology     Support       Bus topology     Support  | MDX/MIDX                    |                                |                         |                        |  |  |
| Star topology     Support       Bus topology     Support   | Watchdog                    | Support                        |                         |                        |  |  |
| Bus topology Support   | Network Topology            |                                |                         |                        |  |  |
|  | Star topology               | Support                        |                         |                        |  |  |
| The Tenslery Current   | Bus topology                | Support                        |                         |                        |  |  |
| iree iopology   Support  | Tree Topology               | Support                        |                         |                        |  |  |

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| Mechanical structure               |   |  |  |
|------------------------------------|---|--|--|
| Case protection                    | IP40  |  |  |
| Installation method                | Din-rail  |  |  |
| Dimension(W*D*H)mm                 | 48*98*130mm   |  |  |
| Weight                             | 0.70 kg   |  |  |
| Operating environment              |   |  |  |
| Operating temperature              | -40°C∼+75°C   |  |  |
| Storage/transportation temperature | -40°C~+85°C   |  |  |
| 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-IS3010XF-2GX8TX    | 10/100Base-TX to 1000Base-X unmanaged industrial Ethernet switch with 8*10/100Base-TX RJ45 ports and 2*1000Base-X SFP slots, DC12-58V, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: $-40^{\circ}C \sim +75^{\circ}C$             |
| LT-IS3010XF-2GX8TX-SC | 10/100Base-TX to 1000Base-X unmanaged industrial Ethernet switch with 8*10/100Base-TX RJ45 ports and 2*1000Base-X SC ports, DC12-58V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40 $^{\circ}C \sim$ +75 $^{\circ}C$ |
| LT-IS3010XF-2GX8TX-FC | 10/100Base-TX to 1000Base-X unmanaged industrial Ethernet switch with 8*10/100Base-TX RJ45 ports and 2*1000Base-X FC ports, DC12-58V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40 $^{\circ}C \sim$ +75 $^{\circ}C$ |
| LT-IS3010XF-2GX8TX-ST | 10/100Base-TX to 1000Base-X unmanaged industrial Ethernet switch with 8*10/100Base-TX RJ45 ports and 2*1000Base-X ST ports, DC12-58V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: $-40^{\circ}C \sim +75^{\circ}C$     |