

## 4 \*1000Base-X SFP + 16 \*10/100Base-T Managed Industrial Ethernet Switch LT-IS6220XF-4GX16TX

### Overview:

SmartByte's LT-IS6220XF-4GX16TX is a 4\*1000Base-X SFP ports + 16\*10/100Base-T RJ45 ports managed industrial Ethernet fast switch. Through the fan-less cooling design, wide range working environment temperature  $-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$ , high protection level and industry quality, it is one of the most reliable choice for easy managed Fiber Ethernet application under harsh environment. Meanwhile, it supports the public Ethernet multi ring protection technology (ERPS), which can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. It can meet the deployment requirements of rail transit, safe city, intelligent transportation, outdoor monitoring and other harsh environments.

### Picture



## Features:

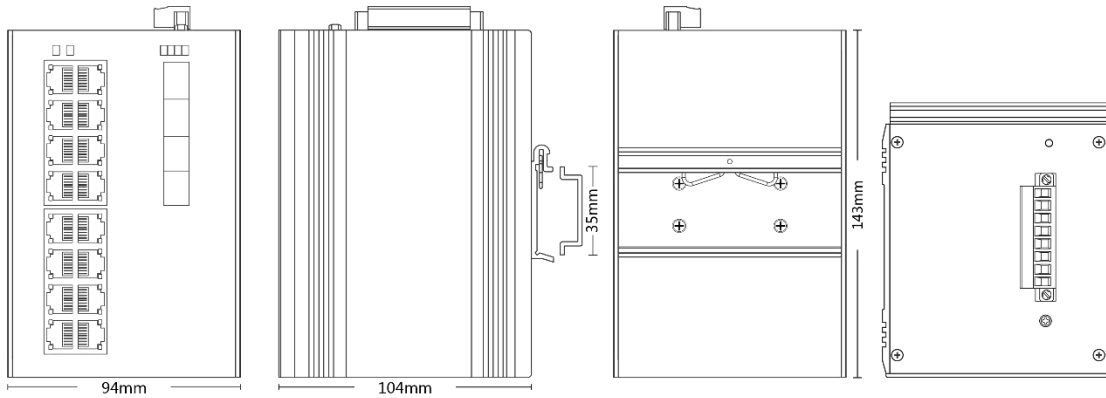
- 4\*1000Base-X SFP slots uplink, 16\*10/100Base-TX RJ45 ports downlink
- IP40 industrial case protection level and fan-less design
- Industrial Marvell chipset to make sure the high performance and quality
- Redundant power supply with polarity reverse protection function
- Layer 2 features: Support flow control, 10K bytes Jumbo frame, VLAN; ERPS, STP/RSTP/MSTP; Link aggregation, IGMP snooping, port mirroring, storm control, QINQ, 802.1X, port isolation, RMON, NTP client, DHCP snooping/client, Ping/Tracert test, Dying gasp , ACL, QoS and SFP DDM function
- Management and maintenance: IPv4 and IPv6 dual stack management; Support Web, SNMP, CLI, Telnet/SSH management method; Support user management, system log, configuration upload/download through web interface, firmware upgrade via HTTP/TFTP
- Support watchdog function, which can make the equipment work again if it is frozen
- Support ring, star, bus, tree and hybrid network topology
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV protection
- Support Din-rail installation
- Operation temperature: -40°C~+75°C
- 5 years warranty

## Technical Specification

| <b>Ports Interface</b>                       |   |
|--|---|
| Fixed port                                   | 4*1000 Base-X SFP ports , 16*10/100 Base-T RJ45 ports |
| Management Port                              | Support console                                       |
| Power interface                              | Phoenix terminal, dual power input                    |
| LED indicators                               | PWR, Link/ACT LED                                     |
| <b>Cable Type &amp;Transmission Distance</b> |   |
| Twisted-pair                                 | 0-100m (CAT5e,CAT6)                                   |
| SFP slots                                    | Depending on the SFP module                           |
| <b>Network Topology</b>                      |   |
| Ring topology                                | √   |
| Star topology                                | √   |
| Bus topology                                 | √   |
| Tree Topology                                | √   |
| Hybrid topology                              | √   |
| <b>Electrical Specifications</b>             |   |
| Input voltage                                | DC12~58V  |
| Total Power consumption                      | < 26W   |
| <b>Layer 2 Switching</b>                     |   |
| Switching capacity                           | 68G   |
| Packet forwarding rate                       | 50.59Mpps   |
| MAC address table                            | 16K   |
| VLAN   | Support 4K  |
| Buffer                                       | 12M   |
| Forwarding delay                             | <10us   |
| MDX/MIDX                                     | √   |
| Flow control                                 | √   |
| Jumbo Frame                                  | Support 10Kbytes                                      |
| Spanning Tree                                | Support STP/RSTP/MSTP                                 |
| Ring Protocol                                | Support ERPS  |
| Link Aggregation                             | Support 12 group                                      |
| Multicast                                    | Support IGMP Snooping                                 |
| Port Mirroring                               | √   |
| Storm Control                                | √   |
| Interface Counters                           | √   |
| QINQ   | √   |
| 802.1X                                       | √   |
| MAC Authentication                           | √   |
| Port Isolation                               | √   |
| RMON   | √   |
| NTP Client                                   | √   |
| DHCP CLIENT                                  | √   |
| DHCP snooping                                | √   |
| Ping/tracert test                            | √   |
| Dying gasp                                   | √   |

|                                       |  |
|---------------------------------------|--|
| DDM                                   | √  |
| <b>Convergence</b>                    |  |
| ACL                                   | Support ACL 500<br>Support IP standard ACL<br>Support MAC expand ACL<br>Support IP expand ACL  |
| QoS                                   | Support QoS re-marking, priority mapping<br>Support SP, WRR queue scheduling<br>Support egress rate-limited, egress rate-limit<br>Support Policy-based QoS |
| <b>Management</b>                     |  |
| CLI                                   | √  |
| Console                               | √  |
| Management IP                         | Support IPv4/IPv6  |
| Telnet/SSH                            | √  |
| WEB management                        | √  |
| SNMP                                  | Support SNMPv1/v2c/v3  |
| User Management                       | √  |
| System Log                            | √  |
| Configuration File Download/Upload    | √  |
| Upgrade Firmware                      | √  |
| <b>Environment</b>                    |  |
| Operating temperature                 | -40°C~+75°C  |
| Storage temperature                   | -40°C~+85°C  |
| Relative humidity                     | 5%~95% (non-condensing)  |
| Thermal methods                       | Fanless, natural cooling   |
| MTBF                                  | 100,000 hours  |
| <b>Mechanical Specification</b>       |  |
| Dimension                             | 48X104X143mm   |
| Installation method                   | DIN-rail   |
| Weight                                | Net weight 1KG   |
| <b>Protection &amp; Certification</b> |  |
| IP Level                              | IP40   |
| Surge protection of Power             | IEC 61000-4-5 Level X (6KV/6KV) (8/20us)   |
| Surge protection of Ethernet port     | IEC 61000-4-5 Level 4 (4KV/4KV) (10/700us)   |
| RS                                    | IEC 61000-4-3Level 3 (10V/m)   |
| EFI                                   | IEC 61000-4-4 Level 3 (1V/2V)  |
| CS                                    | IEC 61000-4-6 Level 3 (10V/m)  |
| PFMF                                  | IEC 61000-4-8 Level 4 (30A/m)  |
| DIP                                   | IEC 61000-4-11Level 3 (10V)  |
| ESD                                   | IEC 61000-4-2 Level 4 (8K/15K)   |
| Free fall                             | 0.5m   |
| Certification                         | CE/FCC/RoHS/CCC  |
| <b>Warranty</b>                       | 5 years  |

## Appearance diagram



Front view

Side view

Back view

Top view

## Order information

| Model               | Description  |
|---------------------|--|
| LT-IS6220XF-4GX16TX | 10/100Base-T to 1000Base-F managed industrial switch, 4*1000M SFP slots + 16*10/100M RJ45 ports, DC12-58V, Phoenix terminal, redundant dual power supply, Din-rail installation. Transmission distance depending on the SFP module; Operation temperature: -40°C ~ +75°C |