

# LBT416GSP-M-SFP

## 16-Port 10/100/1000BASE-TX+4G SFP Managed Industrial PoE Switch

### Switch



#### Slim Type with more Practicability and Convenience

LBT416GSP-M-SFP is a hardened 20-port Industrial PoE Switch, providing non-blocking wire-speed performance in harsh industrial environments. It also provides 16-port 10/100/1000BASE-TX RJ45 PoE +4G SFP delivered in an IP40 rugged, strong case with a redundant power system. Its slim case is suitable for such applications as surveillance system deployments, control management and wireless service in climatically demanding environments with a wide temperature range from -40° C to 80° C.

The LBT416GSP-M-SFP provides the flexibility to all kinds of 10/100/1000Mbps Ethernet Media on RJ-45 port and performs highly stable fiber performance.

The LBT416GSP-M-SFP is packaged in a compact IP40 case that allows either DIN rail or panel mounting to have efficient usage of cabinet space. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 48V DC to 57V DC power supply inputs for high availability applications requiring dual or backup power inputs.

#### Interface

- 16-port 10/100Base-Tx RJ-45 with auto negotiation and auto-MDI/ MDI-X function, supplying 30W PoE, compatible with 802.3at/af
- 4G SFP

#### Industrial conformance

- 48V to 57V DC, redundant power input
- -40°C to 80°C operating temperature
- IP40 aluminum housing
- Supports 6KV DC Ethernet ESD protection
- Supports 6KV DC EFT protection for power line
- Free Fall, Shock and Vibration Stability
- DIN-rail design

#### L2 management

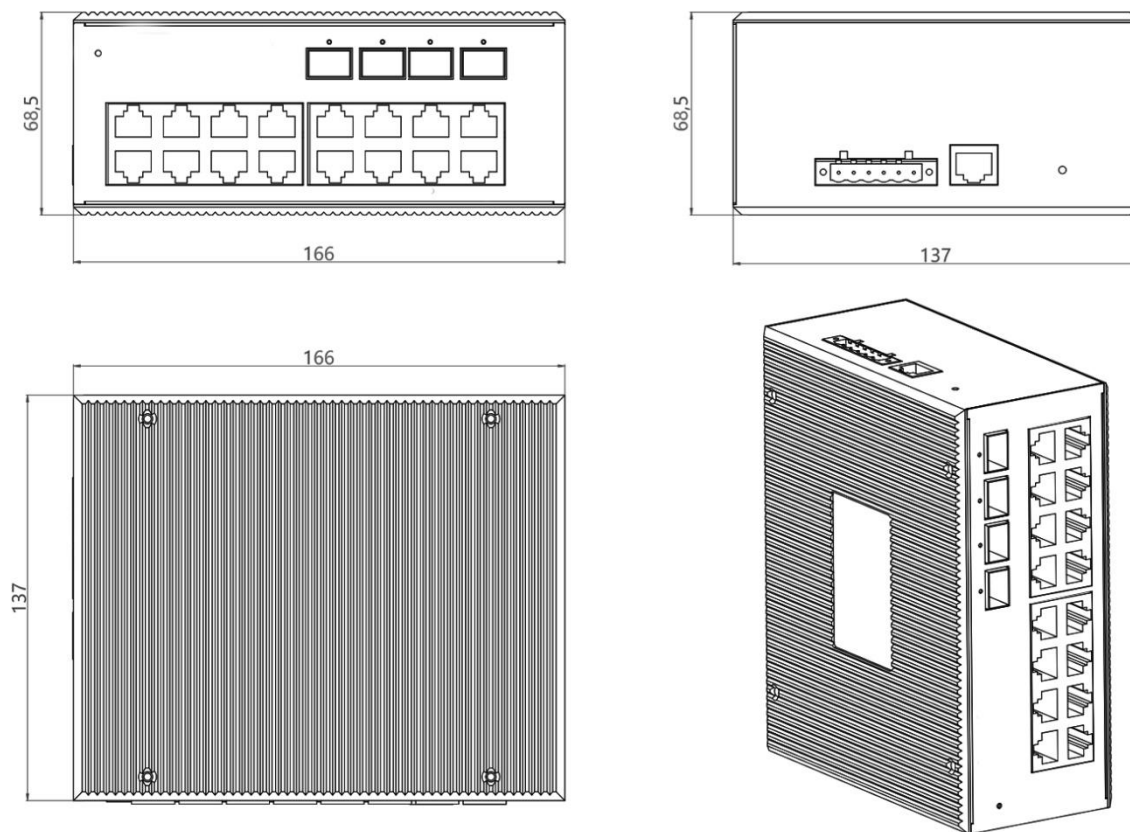
- Support STP/RSTP/MSTP
- Web management, CLI
- IGMP snooping, QOS, VLAN, SNMP

## Specifications:

|                           |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| Model No.                 | <b>LBT416GSP-M-SFP</b>                                                 |
| 10/100/1000Base-TX Port   | 16-Port RJ-45 auto-MDI / MDI-X                                         |
| PoE Specification         | PoE Standard: IEEE802.3af/ IEEE802.3at                                 |
|                           | PoE ports:1-16 port support PoE(max.)                                  |
|                           | Power Output:                                                          |
|                           | Max. 15.4 watts (IEEE 802.3af)                                         |
|                           | Max. 30 watts (IEEE 802.3at)                                           |
|                           | PoE port Auto detect af/at devices                                     |
|                           | Output Voltage: DC48V                                                  |
|                           | Power Pin Assignment:1/2+;3/6-                                         |
|                           | Power Type: End-span( Mid-span optional)                               |
| 1000Base-FX Port          | 4G SFP Slot                                                            |
| Performance Specification | Bandwidth: 56Gbps                                                      |
|                           | Packet Buffer Memory: 12Mbit                                           |
|                           | Packet Forwarding Rate: 42Mpps                                         |
|                           | MAC Address Table: 8K                                                  |
| Installation              | DIN rail                                                               |
| Maximum Frame Size        | 10240bytes packet size                                                 |
| Flow Control              | Back pressure for half duplex, IEEE 802.3x pause frame for full duplex |
| Enclosure                 | IP40 Aluminum housing                                                  |
| LED Indicator             | Power: Red                                                             |
|                           | Fiber: Link 2(Green)                                                   |
|                           | Ethernet: Yellow                                                       |
| Power Input               | 48 to 57V DC redundant power                                           |
| Power Consumption         | < 10watts                                                              |
| Surge protection          | ± 4KV                                                                  |
| Network Protocols         | IEEE802.3 10BASE-T;                                                    |
|                           | IEEE802.3i 10Base-T;                                                   |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p>IEEE802.3u;100Base-TX/FX;</p> <p>IEEE802.3ab 1000Base-T;</p> <p>IEEE802.3z 1000Base-X;</p> <p>IEEE802.3x;</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Network cables         | <p>10BASE-T: Cat3,4,5 UTP(<math>\leq 100</math> meter)</p> <p>100BASE-TX: Cat5 or later UTP(<math>\leq 100</math>meter)</p> <p>1000BASE-TX: Cat6 or later UTP(<math>\leq 100</math> meter)</p>                                                                                                                                                                                                                                                                                                                                    |
| Industry Standard      | <p>EN55022/CISPR22, Class A</p> <p>IEC61000-4-2 (ESD): <math>\pm 8</math>kV (contact), <math>\pm 12</math>kV (air)</p> <p>IEC61000-4-3 (RS): 10V/m (80~1000MHz)</p> <p>IEC61000-4-4 (EFT): Power Port: <math>\pm 4</math>kV; Data Port: <math>\pm 2</math>kV</p> <p>IEC61000-4-5 (Surge): Power Port: <math>\pm 2</math>kV/DM, <math>\pm 4</math>kV/CM; Data Port: <math>\pm 2</math>kV</p> <p>IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)</p> <p>IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)</p> |
| Certification          | CE RoHS compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MTBF                   | >300,000hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dimensions (W x D x H) | 166×137×68.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Weight                 | <p>Product Weight: 1.18KG</p> <p>Packing Weight: 1.3KG</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Working Environment    | <p>Working temperature: <math>-40\sim 80^{\circ}\text{C}</math> ;</p> <p>Storage temperature: <math>-40\sim 80^{\circ}\text{C}</math></p> <p>Relative Humidity: 5%~95 % ( no condensation)</p>                                                                                                                                                                                                                                                                                                                                    |
| Warranty               | 5-year warranty.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Dimensions



## Ordering Information

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
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|------------------------|-----------------------------------------------------------------|