

LBTD28GF-SFP Series

8-port 10/100/1000Mbps RJ45+2G SFP Industrial Ethernet Switch



Slim Type with more Practicability and Convenience

LBTD28GF-SFP is a hardened 10-port Industrial Ethernet Switch, provides non-blocking wire-speed performance in harsh industrial environment. It also provides 8-port 10/100/1000BASE-TX RJ45 +2-port 1000Base-Fx delivered in an IP40 rugged, strong case with 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 wide temperature range from -40°C to 80°C.

The LBTD28GF-SFP series provides the flexibility to all kinds of 10/100Mbps Ethernet Media on RJ-45 port and performs highly stable fiber performance.

The LBTD28GF-SFP series 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 12V DC to 52V DC power supply inputs for high availability applications requiring dual or backup power inputs.

Interface

- 8-port 10/100/1000Base-Tx RJ-45 with auto negotiation and auto-MDI/ MDI-X function
- 2-port 1000Base-Fx interface SC/FC/ST/SFP
- Multi-Mode up to 2km
- Single-Mode up to 20km/40km/60km/80km

Industrial conformance

- 12V to 52V DC, redundant power input
- -40°C to 85°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 and wall-mountable hardware design

Specifications:

Model No.	LBTD28GF-SFP
10/100/1000Base-TX Port	8 port RJ-45 auto-MDI / MDI-X
1000Base-FX Port	LBTD28GF-SFP: 2 SFP Slot
Fiber Port Type	LBTD28GF-SFP: Vary on module
Optical Frequency	LBTD28GF-SFP: Vary on module
Performance Specification	Bandwidth: 20Gbps Packet Buffer Memory:2Mbit Packet Forwarding Rate:15Mpps MAC Address Table: 8K
Installation	DIN rail
Maximum Frame Size	9000bytes 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	12 to 52V DC redundant power
Power Consumption	< 3 watts
Surge protection	±4KV
Network Protocols	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u;100Base-TX/FX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x;
Network cables	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤10meter) 1000BASE-TX: Cat6 or later UTP(≤100 meter)

Industry Standard	FCC CFR47 Part 15, EN55022/CISPR22, Class A IEC61000-4-2 (ESD): $\pm 8\text{kV}$ (contact), $\pm 12\text{kV}$ (air) IEC61000-4-3 (RS): 10V/m ($80\sim 1000\text{MHz}$) IEC61000-4-4 (EFT): Power Port: $\pm 4\text{kV}$; Data Port: $\pm 2\text{kV}$ IEC61000-4-5 (Surge): Power Port: $\pm 2\text{kV/DM}$, $\pm 4\text{kV/CM}$; Data Port: $\pm 2\text{kV}$ IEC61000-4-6 (CS): 3V ($10\text{kHz}\sim 150\text{kHz}$); 10V ($150\text{kHz}\sim 80\text{MHz}$) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)
Certification	CE FCC RoHS compliance
MTBF	>300,000hours
Dimensions (W x D x H)	143.7 x 101 x 44mm
Weight	Product Weight: 0.56KG Packing Weight: 0.66KG
Working Environment	Working temperature: $-40\sim 80^{\circ}\text{C}$; Storage temperature: $-40\sim 80^{\circ}\text{C}$ Relative Humidity: 5%~95 % (no condensation)
Warranty	5-year warranty.

Dimensions

