

# LBT08G-M12

## 8-Port Gigabit Rugged Industrial Ethernet Switch

### Overview

The LBT08G-M12 is an unmanaged industrial Ethernet switch built for rolling stock and vehicle installations. It carries eight 10/100/1000 Mbps copper ports on M12 8-pin A-coded connectors, so the cable stays locked under vibration and shock. The switch meets FCC, CE and RoHS requirements, runs fanless from -40 °C to +85 °C, and is rated IP50 in a metal housing. Typical applications include on-board PIS and CCTV, vehicle video surveillance and automated factories.

### Features

- 8 × 10/100/1000 Mbps M12 ports, 8-pin A-coded
- Wall-mount installation
- Full and half duplex with auto-negotiation
- Auto MDI/MDI-X on every port
- Store-and-forward switching, multi-protocol support
- Industrial-grade design, MTBF over 300,000 hours
- DC 12-52 V input with overload and reverse-polarity protection

### Specifications

| Item                   | Description                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model No.              | LBT08G-M12                                                                                                                                                                                                                                                                                 |
| Interface              | 8 × 10/100/1000Base-T(X), M12 8-pin A-coded                                                                                                                                                                                                                                                |
| Network Protocols      | IEEE 802.3i (10Base-T); IEEE 802.3u (100Base-TX); IEEE 802.3ab (1000Base-T)                                                                                                                                                                                                                |
| Switching              | Store and forward; MAC address table 8K; packet buffer 2 Mbit; backplane bandwidth 20 Gbps; forwarding delay < 10 µs; power consumption < 5 W                                                                                                                                              |
| LED Indicator          | Power: PWR; Port: Link/Act                                                                                                                                                                                                                                                                 |
| Power Input            | DC 12-52 V (non-PoE version); M12 (male) 4-pin A-coded connector; overload protection; reverse-polarity protection                                                                                                                                                                         |
| Enclosure              | Metal housing, IP50, fanless natural cooling, wall mount                                                                                                                                                                                                                                   |
| Dimensions (W x D x H) | 157.8 x 121 x 43.2 mm                                                                                                                                                                                                                                                                      |
| Weight                 | 0.65 kg                                                                                                                                                                                                                                                                                    |
| Working Environment    | Working temperature: -40 to +85 °C; Storage temperature: -40 to +85 °C; Relative humidity: 5% to 95% (non-condensing)                                                                                                                                                                      |
| Industry Standard      | EMI: FCC Part 15, CISPR (EN55022) Class A<br>EMS: EN61000-4-2 (ESD) Level 4; EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT) Level 3; EN61000-4-5 (Surge) Level 3; EN61000-4-6 (CS) Level 3; EN61000-4-8 Level 5<br>Shock: IEC 60068-2-27; Free fall: IEC 60068-2-32; Vibration: IEC 60068-2-6 |
| Certification          | CE, FCC, RoHS compliance                                                                                                                                                                                                                                                                   |

|                 |                  |
|-----------------|------------------|
| <b>MTBF</b>     | >300,000 hours   |
| <b>Warranty</b> | 5-year warranty. |

### Ordering Information

| <b>Model</b>      | <b>Description</b>                                                                                                                    |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>LBT08G-M12</b> | 8 × gigabit M12 ports unmanaged industrial Ethernet switch, wall mount, DC 12-52 V, wide temperature (-40 °C to +85 °C), CE-RoHS-FCC. |

*A PoE version (8 PoE ports, IEEE 802.3af/at, 30 W per port, DC 48-57 V input) is available on request.*

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