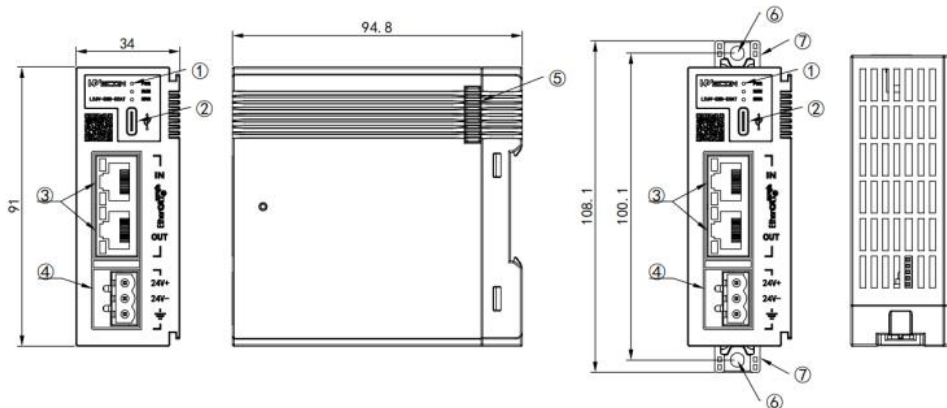# LX6 EtherCAT MODULE

LX6V-EMB-ECAT communication modules support EtherCAT communication, with automatic scanning function, and adapt to our company and third-party EtherCAT master station equipment: PLC, PCB, etc. Features:

- Compact structure and convenient installation;
- Response at microseconds of high-speed bus;
- The maximum number of expansion modules is 32, and the total power of modules ≤ 48W.

## Specification

| Item | LX6V-EMB-ECAT | LX6V-EMC-ECAT |
|---|---|---|
| Rated Input Voltage | DV 24V±10%@100mA (excluding expansion module) | |
| Communication Interface | RJ45×2, EtherCAT communication protocol with performance100Mbps: IN interface is EtherCAT input port; OUT interface is an EtherCAT output port, which is used for connecting the subsequent EtherCAT slave; | |
| Transmission Distance | Length of communication line between two nodes≤100m | |
| Transmission Medium | Category 5E (cat 5e) cable or above | |
| Single AP Process Data | Maximum input and output 1024 bytes | |
| Synchronous Period | Minimum 125us | |
| Allowable Instantaneous Power Outage Time | 10ms | |
| Impulse Current | ≤ 45A (with maximum module load) | |
| Power Protection | Anti-reverse connection protection, overcurrent protection and surge absorption | |
| Maximum Number of Expansion Modules | 16 | 32 |
| Firmware Upgrade | Support | |



| Serial Number | Interface | Function Definition | | | |
|---|---|---|---|---|---|
| 1 | Signal Indicator | PWR | Power indicator | Off | No power supply |
| | | | | On | When the power supply is on |
| | | RUN | Running indicator | Off | ECT module is in INIT status |
| | | | | Flashing (white) | ECT module is in Pre- Op status |
| | | | | Single flash (white) | ECT module is in Safe-Op status |
| | | | | Normally on (white) | ECT module is in Operational status |
| | | ERR | Communication fault indicator | Off | EtherCAT communication is in normal status |
| | | | | Flashing (Red) | EtherCAT communication receives status transition instructions that cannot be executed |
| | | | | Single flash (red) | Network disconnection, ECT module synchronization error |
| | | | | Normally on (Red) | Watchdog error occurred in EtherCAT communication |
| 2 | USB Communication Interface (Type-C) | Used for single board software upgrade | | | |
| 3 | EtherCAT Interface | IN: EtherCAT input port | | | |
| | | OUT: EtherCAT output interface | | | |
| 4 | 24V power Input Interface | Module power input terminal | | | |
| 5 | Expansion Module Interface | Connect LX6V Series expansion module | | | |
| 6 | Mounting Hole | 2 places, φ4.5 | | | |
| 7 | DIN Rail Fastener | | | | |