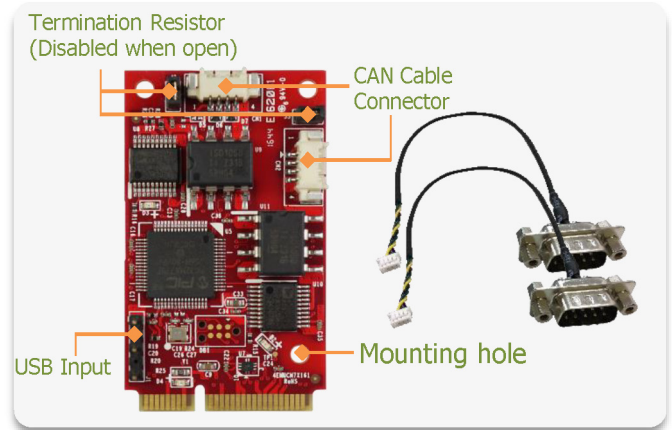


EMUC-B202-Series

USB to dual isolated CANbus 2.0B/ J1939/ CANopen

Features

- CANbus 2.0B backward compatible with 2.0A
- Support baud rate 100/125/250/500(default)/800/1000K
- Support CAN message acceptance filter
- Keep configuration after hardware reboot
- Up to 6000 CAN messages per second (receive data)
- Additional driver to support Linux SocketCAN
- Termination resistor enabled/disabled by jumper
- Complies with EN61000-4-5 2.5kV Surge protection
- Support Listen-only mode
- Support SAE J1939/CANopen high layer protocol (Optional)
- Complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2.5kV HiPOT protection
- Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV
- Supports 3rd mounting hole and USB Pin header for out-ofminicard installation
- 30μ" golden finger, 3-year warranty
- Supports -40 to +85 degrees



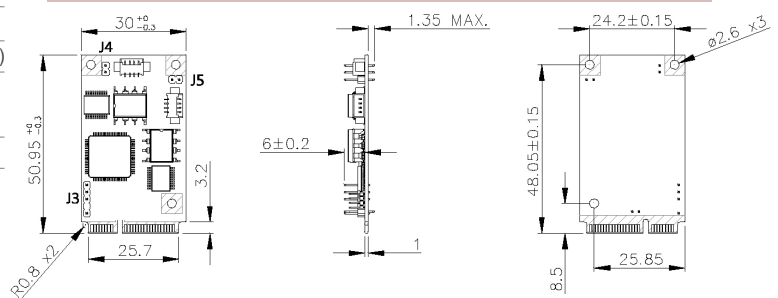
| CAN DB9 Connector Pin Define | | USB In Pin Define | |
|------------------------------|-------|--------------------------|-------|
| 1 | NC | 1 | 5V |
| 2 | CAN-L | 2 | D- |
| 3 | GND | 3 | D+ |
| 4 | NC | 4 | GND |
| 5 | NC | CAN Connector Pin Define | |
| 6 | NC | 1 | NC |
| 7 | CAN-H | 2 | CAN-H |
| 8 | NC | 3 | CAN-L |
| 9 | NC | 4 | GND |

Specifications

| System | |
|-------------------|---|
| Form-Factor | mPCIe |
| Input I/F | USB 2.0 |
| Output I/F | CANbus 2.0B |
| Output Connector | 2 x DB-9 |
| Power Consumption | 1.62W (3.3V, 490mA) |
| Dimension | 30(W) x 50.9(L) x 8.35(H) mm |
| Temperature | Operation: W/T: -40°C ~ +85°C Storage: -55°C ~ +95°C |
| Environment | Vibration: 5G @7~2000Hz, Shock: 50G @ 0.5ms |
| Notes | Download driver and API from MyInnodisk website. Windows: XP(32bit), 7(32/64bit), 8/8.1(32/64bit), 10(32/64bit) Linux: Kernel 2.6 and above (Native CDC-ACM driver), Kernel 2.6.38 and above (SocketCAN Driver), 32/64bit QNX: 6.6 |

| Ordering Information | |
|------------------------------------|--|
| EMUC-B202-W1 (CAN2.0B, Wide Temp.) | USB to dual isolated CANbus 2.0B Module |
| EMUC-B202-W2 (J1939, Wide Temp.) | USB to dual isolated CANbus J1939 Module |
| EMUC-B202-W3 (CANopen, Wide Temp.) | USB to dual isolated CANbus CANopen Module |

Mechanical Drawing



TOLERANCE: ±0.10 mm

CANbus Module Comparison

| CANbus Module (O: support X:Not Support) | | | |
|--|-----------------------|--------------|--------------|
| Model | EMUC-B202 | | |
| P/N | EMUC-B202-W1 | EMUC-B202-W2 | EMUC-B202-W3 |
| Support protocol | 2.0B | 2.0B/J1939 | 2.0B/CANopen |
| Input Interface | USB 2.0 | | |
| Output ports | 2 | | |
| Supported API (v1 and v2 are not compatible with each other) | | | |
| Basic CAN 2.0B (v1.0.0) | | X | |
| Basic CAN 2.0B (v2.0.0) | | O | |
| J1939 | X | O | X |
| CANopen | X | X | O |
| Supported baud rate (Kbps) | | | |
| 50K | | X | |
| 100K | | O | |
| 125K | | O | |
| 250K | | O | |
| 500K | | O | |
| 800K | | O | |
| 1000K | | O | |
| Feature | | | |
| HiPOT | 2500V | | |
| Surge | 2500V | | |
| ESD | Air-15kV, Contact-8kV | | |
| Temperature | -40~+85°C | | |
| Performance | 6000 frames/sec | | |
| SocketCAN | O | | |
| Acceptance filter | O | | |
| Save config | O | | |
| CAN inactive mode | O | | |
| Listen mode | O | | |
| Error status | O | | |
| Firmware upgrade | O | | |