

Termination Resistor  
(Disabled when open)

CAN Cable  
Connector

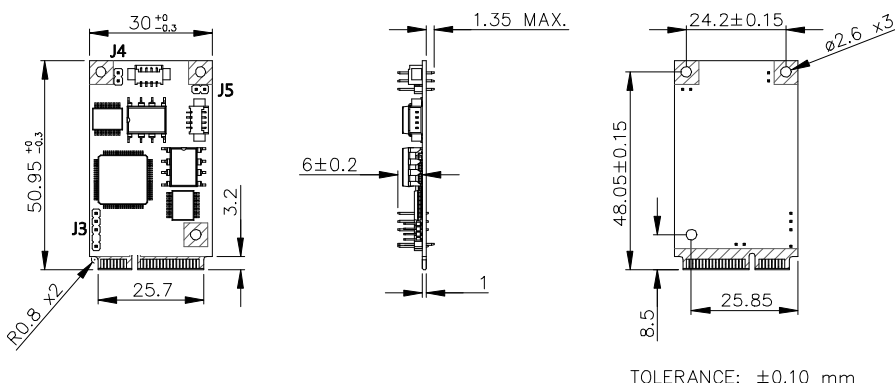
USB Input

Mounting hole

## 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)
- Support Listen-only mode
- Additional driver to support Linux SocketCAN
- Support SAE J1939 high layer protocol (Optional)
- Termination resistor enabled/disabled by jumper
- Complies with EN61000-4-5 2.5kV Surge protection
- 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 3<sup>rd</sup> mounting hole and USB Pin header for out-of-minicard installation
- 30μ" golden finger, 3-year warranty
- Supports -40 to +85 degrees
- Industrial design, manufactured in Innodisk Taiwan

## Mechanical Drawing



| 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

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

## Order 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

# Innodisk CANbus Module Comparison

| Innodisk CANbus Module (O: support X:Not Support)            |                         |                         |                         |
|--------------------------------------------------------------|-------------------------|-------------------------|-------------------------|
| Model                                                        | EMUC-B201               | EMUC-B202               |                         |
| P/N                                                          | EMUC-B201-W1            | EMUC-B202-W1            | EMUC-B202-W2            |
| Support protocol                                             | 2.0A/2.0B               | 2.0A/2.0B               | 2.0A/2.0B/1939          |
| Input Interface                                              | USB 2.0                 | USB 2.0                 | USB 2.0                 |
| Output ports                                                 | 2                       | 2                       | 2                       |
| Supported API (v1 and v2 are not compatible with each other) |                         |                         |                         |
| Basic CAN 2.0B (v1.0.0)                                      | O                       | X                       | X                       |
| Basic CAN 2.0B (v2.0.0)                                      | X                       | O                       | O                       |
| J1939                                                        | X                       | X                       | O                       |
| Supported baud rate (Kbps)                                   |                         |                         |                         |
| 50K                                                          | O                       | X                       | X                       |
| 100K                                                         | X                       | O                       | O                       |
| 125K                                                         | O                       | O                       | O                       |
| 250K                                                         | O                       | O                       | O                       |
| 500K                                                         | O                       | O                       | O                       |
| 800K                                                         | X                       | O                       | O                       |
| 1000K                                                        | O                       | O                       | O                       |
| Feature                                                      |                         |                         |                         |
| HiPOT                                                        | 2500V                   | 2500V                   | 2500V                   |
| Surge                                                        | 2500V                   | 2500V                   | 2500V                   |
| ESD                                                          | Air-15kV<br>Contact-8kV | Air-15kV<br>Contact-8kV | Air-15kV<br>Contact-8kV |
| Temperature                                                  | -40~+85℃                | -40~+85℃                | -40~+85℃                |
| Performance                                                  | 1000 frames/sec         | 6000 frames/sec         | 6000 frames/sec         |
| SocketCAN                                                    | O                       | O                       | O                       |
| Acceptance filter                                            | X                       | O                       | O                       |
| Save config                                                  | X                       | O                       | O                       |
| CAN disable mode                                             | X                       | O                       | O                       |
| Listen mode                                                  | X                       | O                       | O                       |
| Error status                                                 | X                       | O                       | O                       |
| Firmware upgrade                                             | X                       | O                       | O                       |