

# MiniPCIe-CAN

## Product Datasheet

Instruction Manual Version: V2.07

Update Date: 2021.12.09

## Model: MiniPCIe-CAN

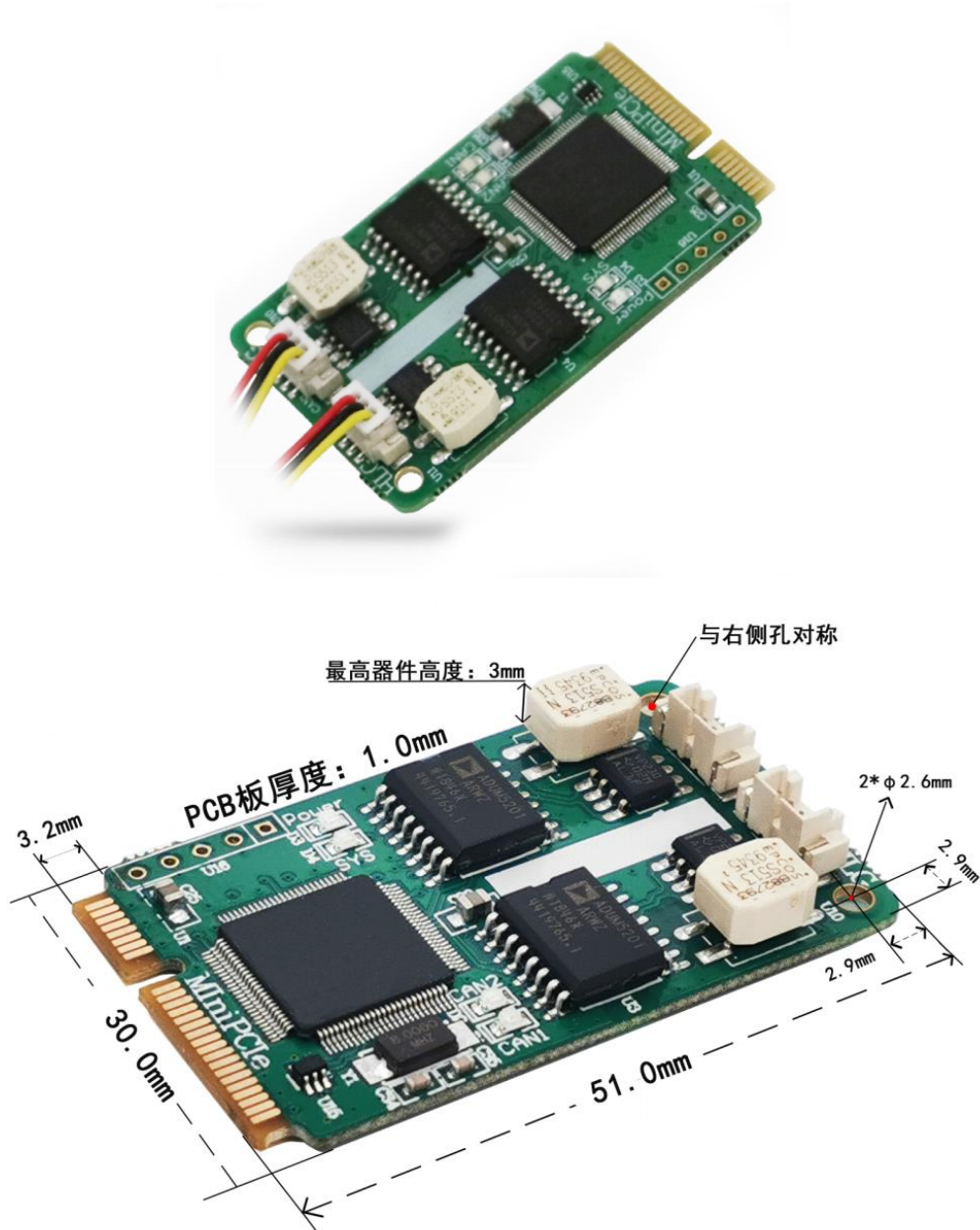
### Performance and Technical Specifications

- USB to CAN bus Protocol Conversion;
- 2 CAN Interfaces Equipped; Bi-directional transmission, CAN transmit and CAN receive Supported;
- Supports CAN2.0A and CAN2.0B protocols, standard and extended frames, data frames and remote frames;
- CAN controller baud rate selectable between 10Kbps-1Mbps and configurable via software;
- CAN bus interface adopts high-speed magnetic coupling isolation, integrated isolated DC-DC power supply; three-terminal full isolation (PCI bus and CAN bus isolation, isolation between CAN1 and CAN2);
- Support Relay Function, transparent transmission function, 2500V isolation between CAN1 and CAN2;
- Traffic:Two CAN channels (when running at the same time) reach 8500 frames/s for receiving and 8500 frames/s for transmitting respectively; (two channels receive 8500 frames/s at the same time, and the PCI speed can reach a speed of 17000 frames/s without dropping frames)
- PCI ExpressMini interface is directly powered without external power supply;
- Passed 2500V isolation withstand voltage test;
- Built-in conjugate coil (common mode inductor) to suppress common mode interference and improve anti-interference capability. ;
- Supports ISO15765 protocol parsing, CANOpen, J1939, DeviceNet parsing, DBC parsing.
- PC interface: 52Pin PCI ExpressMini slot;
- CAN interface: 3Pin pitch 1.25mm card socket with its own adapter lead;
- Termination Resistor: On-board 120 Ohm termination resistor, can be removed by yourself;
- System: windows7/8/10 (32/64bit), Linux (32/64bit);

- Operating temperature: -40~85°C;
- Case size: 30\*51\*3mm.
- Product compatibility: function library compatible with Guangzhou Chou Li-gong Company ZLG-USBCAN interface adapter.

CAN bus configuration, transmission and reception can be performed directly using the supplied CANTools tool software. Users can also refer to the provided DLL dynamic link library and VC/VB routines to write their own applications and conveniently develop CAN system application software products.

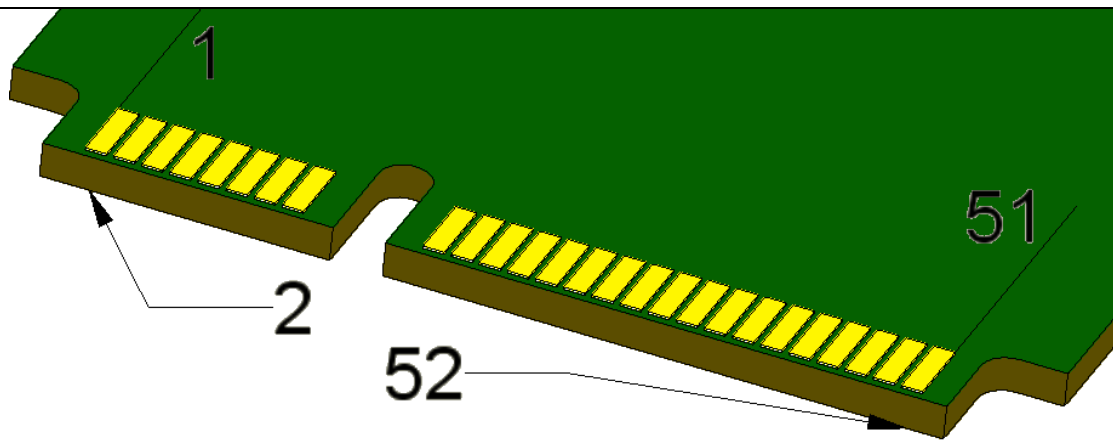
When developing secondary software, it is not necessary to understand the complex communication protocols of the USB interface.



## MiniPCIe End Interface Definition

Signal Name	Pin Number	Clarification
USB_D-	36	USB Signal Wire D-
USB_D+	38	USB Signal Wire D+
3.3V	2、 52	3.3V Power Supply
GND	4、 9、 18、 21、 26、 27、 29、 34、 35、 40、 50	Ground

Note: Each 3.3V pin on the board requires only one connection for power supply, as does each GND pin.



## CAN Terminal Interface Definition

CAN1			CAN2		
GND	CANL	CANH	GND	CANL	CANH
Black	Yellow	Red	Black	Yellow	Red