

## FEATURES

- Full size mini PCI express.
- Compatible with CAN 2.0A/B
- CAN bus baud rate 50/125/250/500/800/1000Kbps
- Compatible with OBD-II, J1939, CANopen
- Support Linux (SocketCAN, SL-CAN), Windows (SL-CAN)
- Listen mode support
- Filter support (up to 28 filters)
- Optional resistor (not terminated)
- Supports firmware update
- Available also in USB dongle form factor

## INTRODUCTION

This mini PCIe card is a portable extension intended for field computer devices. It allows plugging a computer into CAN 2.0 A/B bus and other compatible systems such as OBD-II, J1939 and CANopen.

## SPECIFICATIONS

Form factor	Full size mini PCIe card, adjustable to half size <sup>1</sup>
Host interface	USB 2.0 via mini PCI Express
Interface number	1x CAN (ISO 11898)
Protocol compatibility	RAW CAN, OBD-II, J1939, CANopen
Driver support	Windows (serial device) Linux (serial device) Linux (socketcan, requires firmware update)
SDK Support	Java (CANopen, RAW CAN) + Linux, Windows
Operating temperature	0°C to 60 °C
Dimensions	50.9 x 30 x 6.56 mm

## ConnectorIO SDK

This is a convenient library written in portable language which allows to interface CAN devices of various kinds as well as build data acquisition tools based on CAN 2.0a and CANopen.

## CONNECTOR

This card uses a mini PCI express slot. While it is fairly popular please double check PIN assignment in a target device. Some manufacturers might have partial support for this slot especially if its intended for storage purposes (ie. mSATA). Below table outlines PIN numbers which are utilized by card.

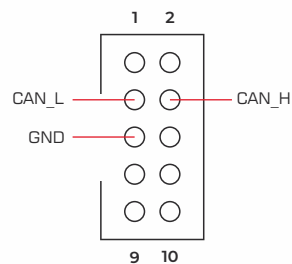
<sup>1</sup> Due to the I/O connector format, this card might not fit into short half size slots. Pay attention to space available around the mounting holes. Any condensers and other tall elements will make it impossible to insert and lock the card.



## Mini PCI Express

mini PCI Express PIN number	Role
36	USB_D-
38	USB_D+
4, 9, 15, 18, 21, 26, 27, 29, 34, 35, 40, 43, 50, 53	GND
2, 24, 39, 41, 52	+3.3V

### AVR ISP PINOUTS VIEWED FROM FRONT

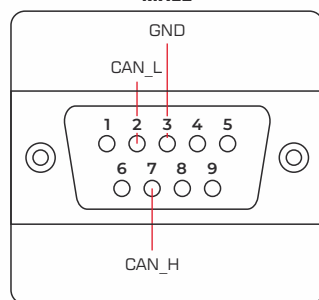


## I/O slot

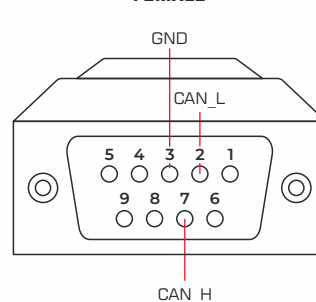
Slot exposed by the card is inline with IDC-10 format.

IO slot pin	Role
3	CAN_L
4	CAN_H
5	CAN_GND

### MALE



### FEMALE



## DB9

The DB9 connector is compatible with CAN in Automation (CiA association) recommendations.

D-SUB pin number	Role
2	CAN_L
3	GND
7	CAN_H