

Description

It can work with [DB9 to OBD2 Cable With Switch](#).

CAN-BUS is a common industrial bus because of its long travel distance, medium communication speed and high reliability. It is commonly found on modern machine tools and as an automotive diagnostic bus. This CAN-BUS Shield adopts MCP2515 CAN Bus controller with SPI interface and MCP2551 CAN transceiver to give your Arduino/Seeeduino CAN-BUS capability. With an OBD-II converter cable added on and the OBD-II library imported, you are ready to build an onboard diagnostic device or data logger.

The CAN-BUS shield V1.2 is the latest version with very considerable functions update. The changeable chip select pin provides an alternative pin to communication with the chip. An on board screw terminal makes it very convenient to connect CAN-H and CAN_L directly. Just like other Arduino compatible shield, we integrated the Arduino Uno headers on the shield so that you can plug the shield into Arduino Uno direatly. And as an expansion board, 2 grove port is added to the board to offer more possibility with the hundreds of Grove modules.

What’s new in CAN BUS Shield V1.2

- Pads on the backside of PCBA
- Change terminal resistor to 120 Ohm

Note

CAN BUS Shield Work well with Arduino UNO (ATmega328), Arduino Mega (ATmega1280/2560) as well as Arduino Leonardo (ATmega32U4) and LinkIt One, if you want to use it with the others board, please contact us for more details.

	Arduino UNO	Arduino Mega	Arduino Leonardo	LinkIt One
CAN-Bus Shield V 1.2	Compatible	Compatible	Compatible	Compatible

Features

- Implements CAN V2.0B at up to 1 Mb/s
- Changeable chip select pin
- Screw terminal that easily to connect CAN_H and CAN_L
- Arduino Uno pin headers
- 2 Grove connectors (I2C and UART)
- SPI Interface up to 10 MHz
- Standard (11 bit) and extended (29 bit) data and remote frames
- Two receive buffers with prioritized message storage
- Industrial standard 9 pin sub-D connector
- Two LED indicators

CAN-BUS Shield V1.2

SKU 113030021

[Read all 1 reviews](#)

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- For libraries and documents, please visit our [Wiki](#) page.
- For technical discussion, please come to our [Forum](#).
- For projects that you would like to share with the community, please visit [Recipe](#).

Bundle sales



CAN-BUS
Shield V1.2

+



DB9 to OBD2
Cable With

=

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Best-sellers



Seeeduino V4.2



DSO Nano v3



Base Shield V2



Linkit Smart 7688 Duo

Technical Details

Dimensions	72mm x 54mm x 27mm
Weight	G.W 31g
Battery	Exclude

Part List

CAN-Bus Shield V1.2	1
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Documents

- [WIKI](#)
- [Arduino Library for CAN-BUS Shield](#)
- [MCP2515 datasheet](#)
- [CAN-BUS Shield V1.2 Schmetics](#)

Learn



Volkswagen CAN BUS Gaming


Ever wanted to play a car/truck simulator with a real dashboard on your PC? Me too! I'm trying to control a VW Polo 6R dashboard via CAN Bus with an Arduino Uno and a Sseed CAN Bus Shield. Inspired by Silas Parker. Thanks to Sepp and Is0-Mick for thei

Reviews

★★★★★ Perfect!

The easiest CAN shield out there. Love this device.

Dec 05,2016 by [john.ripley](#) United States

Was this review helpful ?  0

Questions and Answers

Have a question about this? Ask people who own it.



Can I connect this shield direct to Arduino due?

vishal.solanki on Jun 27,2017

Reply |
upvote (0)

Hello, I am sorry but this shield isn't compatible with Due.Thanks.

ae on Jun 28,2017 10:13 AM

Reply |
upvote (0)

Thanks for input.I have seen other forums suggest this board for DUE.Can you suggest other CAN shield which is compatible with Arduino Due?

vishal.solanki on Jun 28,2017 12:22 PM

Reply |
upvote (0)



Can I connect to protocol J1939?

jlorellanam7 on Nov 23,2016

Reply |
upvote (0)

Could not connect CAN Bus shield to protocol J1939.

kavi on Nov 23,2016 15:47 PM

Reply |
upvote (0)

@kavi Is their any solution to this problem?

johnson.chris on Apr 28,2017 06:58 AM

Reply |
upvote (0)



What must be done to use the db9 connector with standard can pinout (2=lo,7=hi,3=gnd) on a standar canbus network instead of an automobile and obd2?

victor.whiskey.yankee on Nov 02,2016

Reply |
upvote (0)

Kindly refer the following wiki page on how to interface DB9 to OBDii http://wiki.seeed.cc/CAN-BUS_Shield_V1.2/.

kavi on Nov 02,2016 18:27 PM

Reply | upvote (0)

@kavi Sorry, but to rephrase the question: I have a NON-OBD2, non-automobile canbus network. Can and how to use the DB9 connector on the shield?

victor.whiskey.yankee on Nov 02,2016 22:39 PM

Reply | upvote (0)



Is there a possibility to use libraries of Sparkfun? I have tested a program but it caused problems.

pol decrosmol on Apr 07,2017

Reply |
upvote (0)

Yes. They use the same control IC.Thanks.

ae on Apr 14,2017 11:07 AM

Reply |
upvote (0)



Can I use the shield together with a 9 axes motion shield on top of it ?
(<http://www.arduino.org/products/shields/arduino-9-axes-motion-shield>)

mika.eckhardt on Mar 16,2017

Reply |
upvote (0)

Yes. Thanks.

ae on Apr 17,2017 11:25 AM

Reply |
upvote (0)



golf

max on Mar 10,2017

Reply |
upvote (0)

Please contact techsupport@seeed.cc for more details. Thanks.

ae on Apr 17,2017 11:33 AM

Reply |
upvote (0)



Hello, I'm using the CAN Bus Shield with an Arduino Leonardo to send the Acceleration Data of another Shield (the 9 Axis Motion Shield) to an other device via can. Both Shields work fine when used alone, but when I attach the 9 axis Motion Shield on top of the CAN Bus Shield, it doesn't. (This means i don't get any information on the CAN Bus, and not even the Serial Monitor gives any output). What could be the problem ?

mika.eckhardt on Mar 02,2017

Reply |
upvote (0)

If your 9Axis sensor is an I2C(D2/3 for Leonardo) one, the will be some problem, as can bus shield use D2 as receive interrupt pin.Thanks.

ae on Apr 18,2017 14:38 PM

Reply |
upvote (1)



Hello, I'm using the CAN Bus Shield with an Arduino Leonardo to send the Acceleration Data of another Shield (the 9 Axis Motion Shield) to an other device via can. Both Shields work fine when used alone, but when I attach the 9 axis Motion Shield on top of the CAN Bus Shield, it doesn't. (This means i don't get any information on the CAN Bus, and not even the Serial Monitor gives any output). What could be the problem ?

mika.eckhardt on Mar 02,2017

Reply |
upvote (0)

hello, I had replied you at another topic.Thanks.

ae on Apr 18,2017 14:39 PM

Reply |
upvote (1)



can I use 2 seeed CAN Shields with 1 Arduino?

Thomas F. on Feb 28,2017

Reply |
upvote (0)

Yes, and please note that the 2 shields should have different CS pins.Thanks.

ae on Apr 18,2017 14:52 PM

Reply |
upvote (0)



Does this come assembled with the headers soldered on?

Michael Cowley on Dec 08,2016

Reply |
upvote (0)

Dear Michael,Yes, all the pin header was soldered well.Thanks.

ae on Dec 08,2016 09:35 AM

Reply |
upvote (0)

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NFC Shield V2.0



GPRS Shield V3.0



W5500 Ethernet Shield



Relay Shield v3.0

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