12volt.lv ICAN 1.0

Automotive CAN Bus filter

Features

- Suitable for 12 V automotive systems
- · Current consumption less than 30 mA
- Protection against reverse power connection without blowing an external fuse (except 5V connection)
- Overvoltage protection: +60/-20V for +12V line
- High Speed CAN bus up to 500 kbps
- Small size: 26 x 40 x 6 mm

Connection

- Power +12 V
- Power GND
- Optional Power +5 V

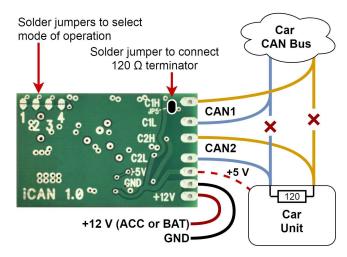
Note: Power up adapter from +12V or +5V but not both.

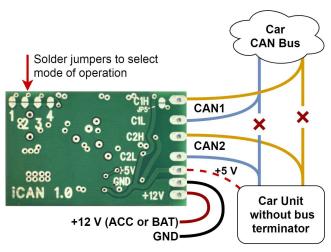
- CAN 1 with switchable 120 Ω terminator (Jumper 5)
- CAN 2 with permanent 120 Ω terminator

Connectors pinout

Information about connectors locations and contacts numbering is shipped with adapter.

Typical Applications







ICAN 1.0 is shipped as assembled PCB without soldered wires

Description

ICAN 1.0 is an automotive CAN bus adapter for different purposes such as: change of operational mode of electronic unit connected to bus, integration of unit from different vehicle, measurement units conversion, and so on.

Operating modes

Jumpers		FW	Mode
1234	5	ver.	
0000			Inactive
•000	0	a	Chrysler Video in motion (1)
0000	0	a	Toyota/Lexus Fahrenheit to Celsius (2)
••00			Inactive
0000			Inactive
•0•0			Inactive
0 • • 0			Inactive
•••0			Inactive
000			Inactive
●00●			Inactive
000			Inactive
••••			Inactive
0000			Inactive
• • • •			Inactive
0 • • •			Inactive
••••			Inactive

- - jumper leaved unsolded
- jumper shorted by solder

Notes:

- (1) Chrysler Voyager (2014->). Switchover between VIM and Navigation modes is performed automatically.
- (2) Climate control panel Fahrenheit to Celsius conversion in: Toyota: Prius (2010->), Corolla (2013->), Mirai (2014->) and others models;

Lexus (2014->): IS, RC, NX, RX, ES, GS, GX, LC, LS, LX and others models.

Tested in:

Toyota: Mirai (2014->);

Lexus: LX570 (2015->), NX200, NX300 (2014->).

Please note, that US to EU conversion at instrument

cluster is NOT performed by iCAN filter.

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Document History

Doc. Rev.	H/W	Firmware	Date	Description
1.2 1.1 1.0	1.0	a	08.11.2020 06.07.2020 26.05.2020	Solder jumpers for first two modes were missed up in table Adapter→ Filter, List of supported vehicles English version, 500 kbps

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