



TTL-CAN-Adapter

Hardware-Description

2023 February

INDEX

<u>1. Introduction</u>	3
1.1. Foreword	4
1.2. Customer satisfaction	4
1.3. Customer response	4
1.4. Brief description	5
<u>2. Hardware description</u>	6
2.1. Technical data	7
2.2. Module Connector	8
2.2.1. 9pol. D-SUB female	8
2.2.2. 5pol. Nylon Crimp male	8
2.3. Circuit diagram	9
2.4. Assembly diagram	9
<u>3. Appendix</u>	10
3.1. Contact / Support	11
3.2. Environment and disposal	11
3.3. Revisions	12
3.4. Copyrights and trademarks	13

Introduction



1. Introduction

1.1. Foreword

Congratulations on purchasing a high quality DEDITEC product!

Our products are developed by our engineers according to today's required quality standards. We pay attention already during the development to flexible expandability and long availability.

We develop modular!

Due to a modular development we shorten the development time and - what of course benefits the customer - we sell at a fair price!

We ensure a long delivery availability!

If used semiconductors are no longer available, we can react faster. With us mostly only modules have to be redesigned and not the whole product. This increases the delivery availability.

1.2. Customer satisfaction

A satisfied customer is our first priority!

If something is not to your satisfaction, just contact us by phone or mail.

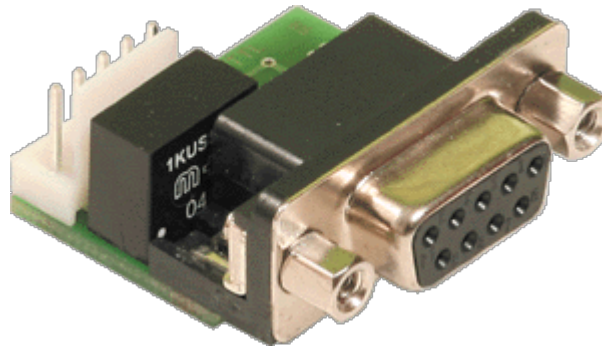
We will take care of it!

1.3. Customer response

The best products grow with our customers. We are always grateful for any suggestions or proposals.

1.4. Brief description

The TTL-CAN adapter is a bidirectional converter for TTL to CAN signal level. It acts as a translator between the CAN controller (TTL) and the CAN bus by signal conversion. Input and output side are galvanically isolated from each other.



Hardware description



2. Hardware description

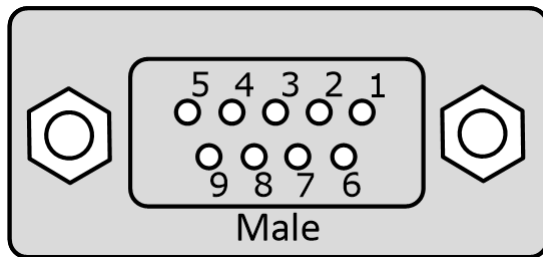
2.1. Technical data

- +5V power supply
- In- and outputs are galvanically isolated
- 9 pol. D-SUB female to connect to CAN-bus
- 5 pol. Nylon Crimp male to connect to CAN-Controller
- Dimensions: 26,2mm x 30,7mm (LxB without cable)

2.2. Module Connector

2.2.1. 9pol. D-SUB female

The connection to the module on CAN side is made by a 9pol. D-SUB female.



Pin assignment:

Pin	Name
2	CAN low
7	CAN high

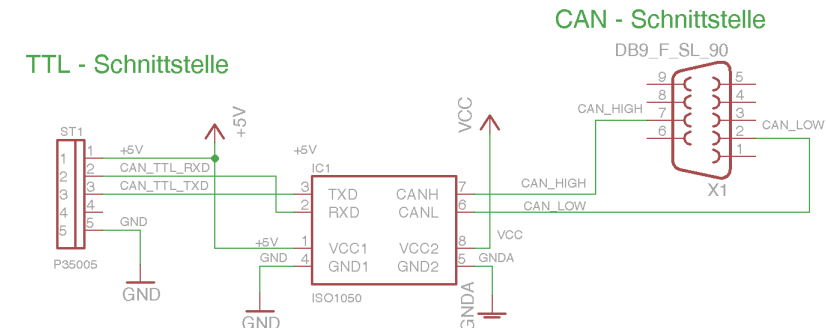
2.2.2. 5pol. Nylon Crimp male

The connection to the module on the TTL side is made by a 5 pol. nylon crimp male.

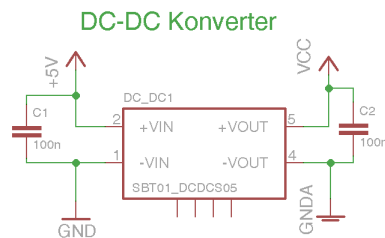
Pin assignment:

Pin	Name
1	+5V
2	RX
3	TX
4	not used
5	GND

2.3. Circuit diagram

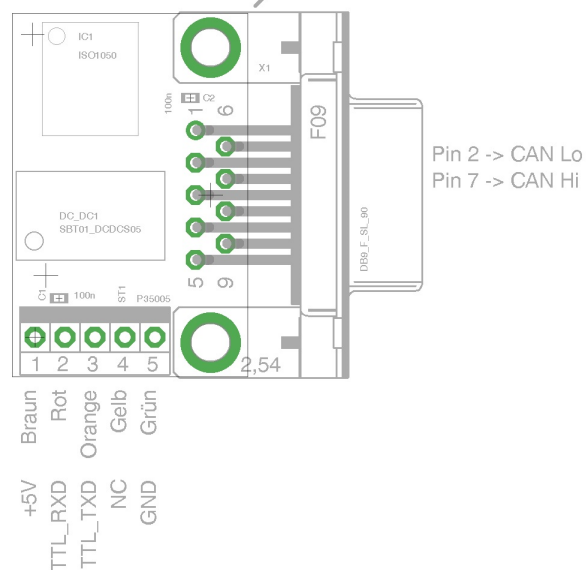


TTL-Interface		CAN - Interface	
PIN	Signal	PIN	Signal
1	+5V	1	NC
2	TTL RXD	2	CAN LOW
3	TTL TXD	3	NC
4	NC	4	NC
5	GND	5	NC
		6	NC
		7	CAN HIGH
		8	NC
		9	NC



2.4. Assembly diagram

TTL - CAN Konverter
mit galvanischer Trennung
ca 20x31mm²



Appendix



3. Appendix

3.1. Contact / Support

If you have any questions about the product or need assistance with commissioning, you can reach us at the following numbers:

Support Software

Tel. +49 (0) 22 32 / 50 40 8 – 20

Support Hardware

Tel. +49 (0) 22 32 / 50 40 8 – 30

Support via E-mail

support@deditec.de

3.2. Environment and disposal

You can return the defective or obsolete product to us at the end of its service life. As a manufacturer and distributor of electronic assemblies, we will take care of the proper disposal for you in accordance with the applicable legal regulations. For this purpose, it is best to use our return form on the homepage:

[Return form](#)

3.3. Revisions

Rev 3.01	DEDITEC Design Update 2022
Rev 3.00	DEDITEC Design Update 2021
Rev 2.01	Index added
Rev 2.00	Design change
Rev 1.00	First DEDITEC Instruction

3.4. Copyrights and trademarks

Linux is a registered trademark of Linus Torvalds.

USB is a registered trademark of USB Implementers Forum Inc.

LabVIEW is a registered trademark of National Instruments.

Intel is a registered trademark of Intel Corporation.

AMD is a registered trademark of Advanced Micro Devices, Inc.

ProfiLab is a registered trademark of ABACOM Ingenieurbüro GbR.

ispVM System is a registered trademark of Lattice Semiconductor Corporation.

Windows, Visual-C/C++, -C#, -Basic, -Basic.NET and Visual-Studio are registered trademarks of Microsoft Corporation.

Delphi is a registered trademark of Borland Software Corporation.

Java is a registered trademark of Oracle Corporation.