

OEM-HF-CONV-M890
USB-TTL Converters for 13.56 MHz OEM RFID Module
Hardware Description

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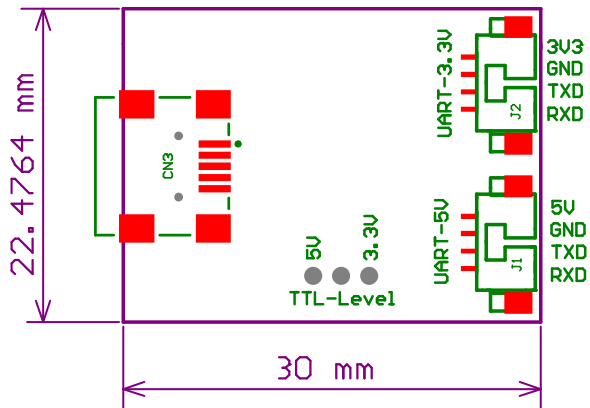
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Technical Data

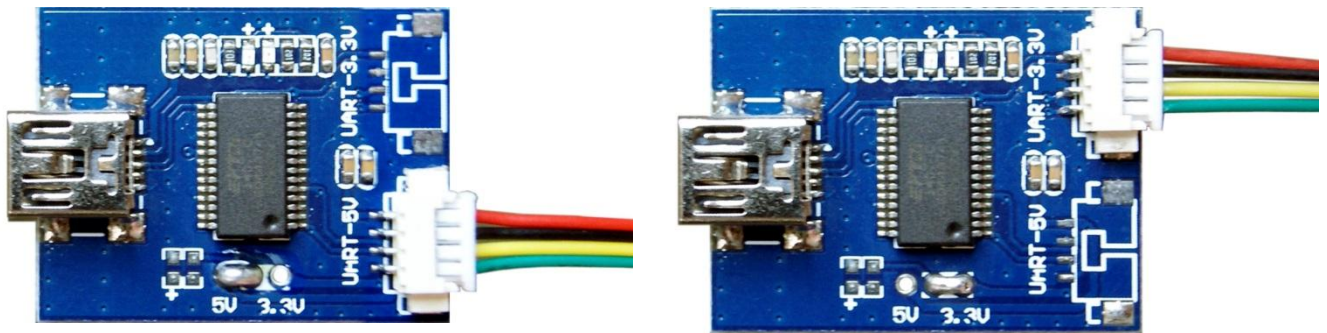
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1 Installation

1.1 Dimensions



1.2 Pinout



1.3 Pinout

Pin	Signal	IO Type	Description
1	+5V/+3V3	PWR	Power supply (red)
2	GND	PWR	Power supply GND (black)
3	TxD	Output	UART TxD (yellow)
4	RxD	Input	UART RxD (green)

1.4 Voltage Selection

The selection of the operating voltage is made by the choice of the connector. Top = 3.3 volts; bottom = 5 volts

The interface voltage level is selected by the solder joint.

2 Technical Data

Other functions and details to be continued and upgraded.

Electrical Specifications

Power Supply	USB (5 Vdc)
Power Consumption	10 mA + current consumption of connected module
USB VCP Chip Family	FTDI FT232RL
Interfaces	TTL, 3.3 or 5 Vdc selected by solder joint
Power supply for modules	5 V directly from USB, max 500 mA 3.3 V via LDO voltage regulator, max 50 mA
Connector	Molex PicoBlade Series, 53261 PCB connector, 51021 cable connector

Mechanical Specifications

Dimensions	32,2 × 23 × 9 mm
Weight	3 g
Material	FR4, blue

Environmental Conditions

Operating Temperature	-20 °C ... +80 °C
Storage Temperature	-40 °C ... +85 °C
Humidity	up to 95 %, non-condensing
MTBF	200'000 h

Applicable Standards

Safety	EN 60950-1:2014-08 EN 62369-1:2010-03 EN 50364:2010-11
RoHS	EC Guideline 2011/65/EU
Certificates	FCC, CE

USB Driver Information

Supported OS by FTDI USB VCP Driver	Windows Server 2008/2012 R2 x64 Windows 7, 8, 8.1, 10 Windows RT Windows CE (CE 4.2-5.2, 6.0/7.0, 2013) Linux Mac OSX Android
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