

OEM-DES-R840-PCSC
13.56 MHz OEM RFID Module
Hardware Description

iDTRONIC GmbH
Donnersbergweg 1
67059 Ludwigshafen
Germany/Deutschland

Phone: +49 621 6690094-0
Fax: +49 621 6690094-9
E-Mail: info@idtronic.de
Web: idtronic.de

Issue 0.1
– 14. September 2020 –

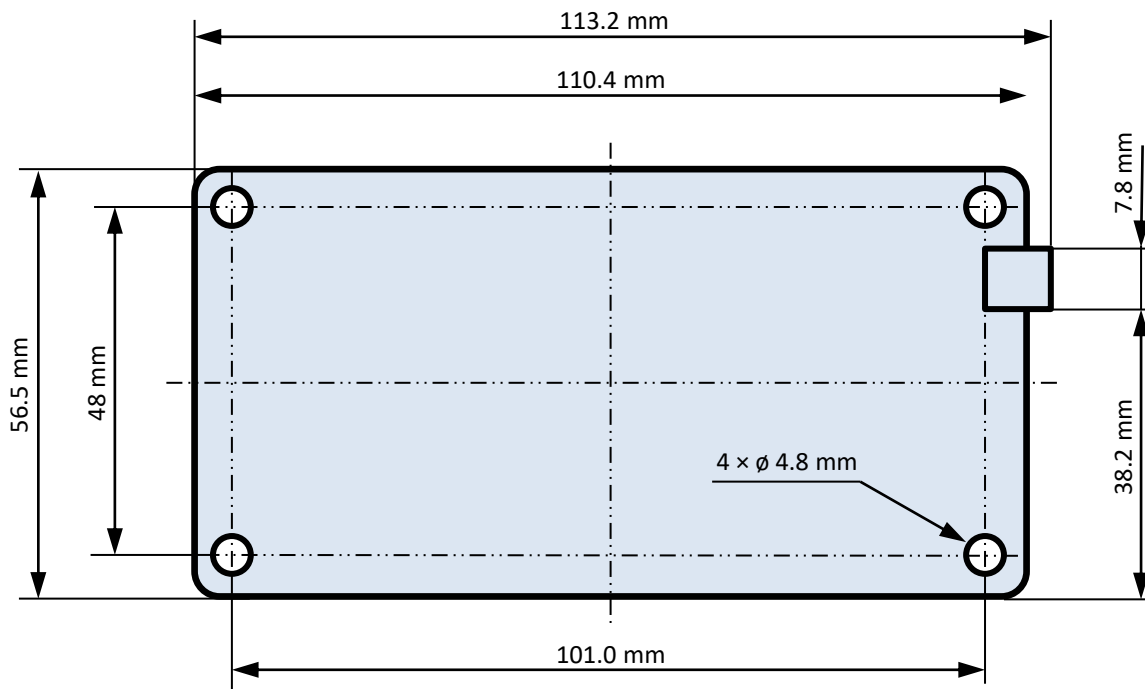
Subject to alteration without prior notice.
© Copyright iDTRONIC GmbH 2019
Printed in Germany

Contents

1	Installation	4
1.1	Dimensions	4
1.2	Electrical Connection	4
1.3	Driver Installation	4
2	Technical Data	5

1 Installation

1.1 Dimensions



1.2 Electrical Connection

The device connects to a PC using the USB interface. When a compatible RFID data tag is in the read range of the antenna, it operates the PC/SC protocol.

1.3 Driver Installation

On Windows OS version since Windows 2000 the PC/SC is supported by the OS as standard feature.

2 Technical Data

Other functions and details to be continued and upgraded.

Electrical Specifications

Power Supply	USB (5 Vdc)
Power Consumption	< 200 mA
Operating Frequency	13.56 MHz
Operating Distance	Up to 8 cm*
Antenna	Integrated, 87 × 54 mm
Reader IC	NXP CLRC632
RF TX Speed	up to 424 kBd
Interface	PC/SC
Connector	USB Mini B Socket
Status Information	LED changes from blue to green to show steady contact with RFID data tag.

* Reading distance depends on tag, antenna and environmental conditions.

Mechanical Specifications

Dimensions	113.2 × 56.5 × 15 mm
Weight	40 g
Material	Antenna + Mainboard: 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

Supported Standards / Tags

ISO 14443 A and compatible	Read/write: MIFARE® Classic Mini / 1K / 4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® DESFire®EV1, MIFARE® Smart MX, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x Read UID only: Read UID only of all other ISO14443A RFID tags
ISO 15693 and compatible	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)

Applicable Standards

EMC	EN 301489-1:2012-04 (v1.9.21) EN 301489-3:2013-12 (V1.6.1)
Radio Regulation	EN 300330-1:2015-08 (V1.8.1) EN 300330-2:2015-08 (V1.6.1)
Safety	EN 60950-1:2014-08 EN 62369-1:2010-03 EN 50364:2010-11
RoHS	EC Guideline 2011/65/EU
Certificates	FCC, CE

SDK Information	
Supported OS	Windows XP, Vista, 7, 8, 8.1, 10 USB Identification: Device Description: Microsoft Usbccid Smartcard Reader (WUDF) Provider: Microsoft Bus reported device description: RFID6630 CCID
Demo Software	Windows