

# Operation Manual

## ID-Tablet/10574

REVISION 0.9, 2010-07-22

The ID-Tablet is a RFID Read-/Write-Device (short: reader) which is compatible to read and write to Mifare® cards. The reader also supports ISO 14443A/B and all cards compliant to these standards. All functions of reader can be controlled over USB- interface which allows data exchange with a host computer. This includes:

- switch on/off RF-Field
- read/write to a transponder

## Mounting and Connection

The reader generates a magnetic field with the frequency of 13.56MHz which is influenced by any electrically conductive material in close proximity to the device. When mounting the unit, a distance to any such material of minimum 10 cm is required to ensure that there will be no significant degradation of the performance in terms of read range and reliability. Mounting the unit directly to metal would result in a severe reduction of read range down to zero functionality. Care should be taken when testing the device after mounting at a problematic environment: Read ranges and performance vary from card to card and very much from card to tag or key-fob.

When mounting multiple readers, the distance between readers should be minimum 0.5 m in order to avoid degradation of performance due to interference.

## Technical Data

### DC Electrical Characteristics

Symbol	Parameter	Condition	Min	Typ	Max.	Units
Vdd	Supply Voltage		4	5	5.5	Vdc
Idd	Supply Current	@ 5 Vdd			200	mA
Idd1	Peak Supply Current	Inrush			400	mA

### RF Characteristics

Operating frequency: 13.56 MHz

Data transmission modulation reader to card: ASK

Data transmission modulation card to reader: ASK/load modulation

## ***Pinout 4-Pin USB-A plug and Signal Descriptions***

<b>Pin</b>	<b>Name</b>	<b>Type</b>	<b>Description</b>
1	PWR	Power	5V Power Supply
2	D -	Output	USB-data inverted
3	D +	Input	USB-data
4	GND	Power	Signal and Power Ground

### **Temperature**

- Operating temperature range: 0...45°C
- Storage temperature range: -20...+60°C
- Thermal shock: 30°C/min maximum dT/dt

### **Humidity**

- Operating: 20% to 80% relative humidity; non condensing
- Non-operating: 5% to 90% relative humidity; non condensing

### **General regulatory requirements**

#### **FCC:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### **Canada:**

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

