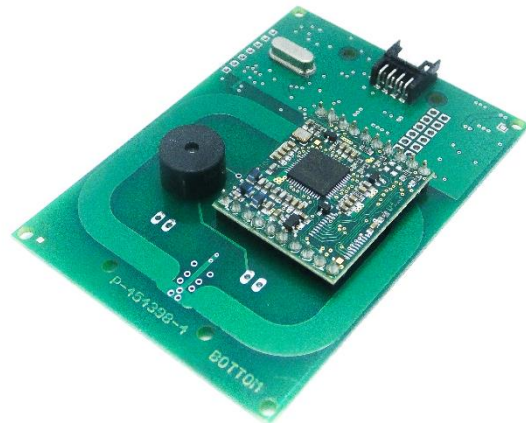


## Datasheet

### Multiplex Multi ISO PCB



The PCB Multiplex Multi ISO is a modern and user-friendly RFID reader for easy integration into different applications.

The Multiplex Multi ISO series is designed as a desktop version and as an OEM board (PCB version) for easy integration into existing systems.

The Multiplex Multi ISO readers are available with the following interfaces: **USB, RS232, TLL**

In the USB variant, the Multiplex Multi ISO reader is available as **USB HID Keyboard Emulation, USB virtual COM Port**.

#### Highlights:

- Integrated antenna
- Read mode
- LED and Beeper on board
- Firmware Upgrade possible
- Also available as Desktop reader in a housing

| Technical specifications |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Operating voltage        | 5V via USB<br>3,3V – 5V DC                                           |
| Power consumption        | <125 mA                                                              |
| Operating Frequency      | 13,56 MHz                                                            |
| Operating distances      | up to 10 cm*                                                         |
| RF Antenna               | Integrated                                                           |
| Status                   | 2x LED<br>1x Beeper                                                  |
| Interface options:       | USB HID (Keyboard emulation)<br>USB virtual COM Port<br>RS232<br>TTL |

\* Reading distance depends on tag and environmental conditions

| Mechanical specifications |                                   |
|---------------------------|-----------------------------------|
| Dimensions (Lx Bx H)      | 80 x 56 x 10 mm without USB cable |
| Weight                    | 26 g                              |

| Environmental conditions |                           |
|--------------------------|---------------------------|
| Operating temperature    | - 20°C up to + 60°C       |
| Storage temperature      | - 20°C up to + 70°C       |
| Humidity                 | up to 95%, non-condensing |

| Supported Standards            |                                                                                                                                        |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ISO 14443 A / B and compatible | LEGIC® Advant 1024 / 2048<br>MIFARE® Classic/1K/4K<br>MIFARE Ultralight®/C<br>MIFARE® DESFire®EV1/2M<br>MIFARE® Plus S / X<br>NTAG 21x |
| ISO 15693 and compatible       | LEGIC® Advant 1024 / 2048<br>NXP I-Code SLI<br>NXP I-Code SLI-S<br>NXP NTAG 20x                                                        |

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| Application Standards |                                                                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| EMC                   | EN 301489-1:2019-11 (v2.2.3)<br>EN 301489-3:2019-03 (v2.1.1)                                                                               |
| Radio Regulation      | EN 300330 V2.1.1 (2017-02)                                                                                                                 |
| Safety                | EC 62368-1:2014-10 + AC:2015                                                                                                               |
| SDR                   | EN 62369-1:2009                                                                                                                            |
| EAS                   | EN 50364:2019                                                                                                                              |
| RoHS 2                | EC Guideline 2011/65/EU<br>and amendment 2015/863/EU,<br>updated by 2017/2102/EU<br>EN 50581:2012 (valid till 2024-07-07)<br>EN 63000:2018 |
| REACH                 | EU Guideline 1907/2006,<br>updated by 2020/171/EU                                                                                          |
| Certificates          | RED                                                                                                                                        |
| Country of origin     | Germany                                                                                                                                    |

| Accessories (Optional) |                      |
|------------------------|----------------------|
| USB cable              | ca. 2 m<br>ca. 40 cm |
| RS232-/TTL cable       | ca. 2 m              |

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