LEGIC Desktop Reader

# NEO 2

## PRODUCT DESCRIPTION

The LEGIC Desktop Reader NEO 2 by iDTRONIC GmbH is a high-performance RFID reader and writer with USB connectivity, designed for applications such as PC log-on, document management, retail, fitness, and healthcare.

This LEGIC RFID desktop reader operates at 13.56 MHz and supports ISO 14443 A/B, ISO 15693, ISO 18000-3M3, and LEGIC RF-Standard transponders. It is compatible with MIFARE®, NTAG®, and LEGIC Advant/Prime cards, enabling secure and efficient RFID authentication.

The device offers VCOM (read/write) and HID (keyboard emulation) functionality, allowing seamless data retrieval and flexible integration into various system environments. The HID output can be configured via a Windows OS configuration tool, enabling customizable data formats for smooth operation.

A software development kit (SDK) for Windows and a binary command protocol ensure easy integration into other operating systems and microcontroller-based applications. The device is CE (RED) and FCC certified and complies with RoHS 2 and REACH standards.

The LEGIC Desktop Reader NEO 2 is a reliable and efficient RFID solution, delivering high performance and seamless integration, making it ideal for industrial, commercial, and IoT applications.

## APPLICATIONS

- **PC log-on**
- **Document Management**
- **Retail**
- **Fitness**
- **Healthcare**

## FEATURES

- **USB Interface**
- **HID or VCOM**
- **Integrated Antenna**
- **LED and Buzzer Signal**

## RFID OPTIONS

- **LEGIC (Prime + Advant)**

**iDTRONIC GmbH**
**Ludwig-Reichling-Straße 4**
**67059 Ludwigshafen**
**GERMANY**

**Phone:+49 (0)621 66 900 94-0**
**Mail: info@idtronic.de**
**Web: idtronic.de**

# TECHNICAL DATA

| ELECTRICAL SPECIFICATIONS | |
|---|---|
| Power Supply | USB |
| Power Consumption | <200 mA |
| Operating Frequency | LEGIC: 13.56 MHz |
| Operating Distances | Legic: 5cm |
| Antenna | integrated |
| Status | 1x Bi-color LED<br>1x Buzzer |
| Interface | USB - Virtual ComPort<br>USB - Virtual ComPort + HID<br>USB - HID |
| Connections | 120 cm long cable with USB- Type-A plug |

| MECHANICAL SPECIFICATIONS | |
|---|---|
| Dimensions | 115 × 70 × 17 mm without USB cable |
| Weight | 90 g incl. USB cable |
| Housing | ABS (black) |

| ENVIRONMENTAL CONDITIONS | |
|---|---|
| Operating Temperature | -20 °C up to +70 °C |
| Storage Temperature | -20 °C up to +80 °C |
| Humidity | up to 95%, non condensing |

| STANDARD UID OUTPUT | |
|---|---|
| Desktop Reader EVO LEGIC 2.0 | HSB |
| Desktop Reader EVO LEGIC 2.0 HID | HSB |

| SUPPORTED FEATURES | |
|---|---|
| UID capturing | Yes |
| Memory Read | Yes |
| Memory Write | Yes |
| Anti Collision | Yes |
| All commands available (transparent command) | No |

| SDK INFORMATION | |
|---|---|
| Supported OS | Windows 10, 11 |
| Supported Languages | Binary command protocol, VS2005 C++ |
| Demo Software | Windows |

| APPLICABLE STANDARDS | |
|---|---|
| EMC | EN 301489-1:2019-11 (v2.2.3)<br>EN 301489-3:2019-03 (V2.1.1) |
| Radio Regulation | EN 300330-1:2015-03 (V1.8.1)<br>EN 300330-2:2015-03 (V1.6.1) |
| Safety | EC 62368-1:2018-10<br>(V3.0, valid as of 2020-12-20) |
| 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 | FCC, CE |

| SUPPORTED STANDARDS / TAGS | |
|---|---|
| **RFID LEGIC: 13.56 MHz** | |
| ISO 14443 A and compatible | Read/write: MIFARE® Classic/1K/4K,<br>MIFARE Ultralight®/C,<br>MIFARE® DESFire®,<br>MIFARE® Smart MX,<br>MIFARE® Plus S / X,<br>MIFARE® Pro X,<br>NTAG 213, 215, 216, 196, DNA<br><br>Read UID only:<br>all other ISO14443A RFID tags |
| ISO 14443 B and compatible | SRI4K,<br>SRIX4K,<br>AT88RF020,<br>66CL160S,<br>SR176 |
| ISO 15693 and compatible | EM4043,<br>EM4x33,<br>EM4x35,<br>I-Code SLI / SLIX,<br>I-Code SLI-2,<br>M24LR16/64,<br>TI Tag-it HF-I,<br>SRF55Vxx (my-d vicinity) |
| ISO 18000-3M3 | I-Code ILT-M |
| Legic RF-Standard | Full read/write operation:<br>LEGIC Advant;<br>LEGIC Prime Smart card cards<br>with Card in Card (CIC) technology<br>Legic Advant type AFS 4096-JP with<br>loaded Legic |

***READING DISCTANCE DEPENDS ON TAG, ANTENNA AND ENVIRONMENTAL CONDITIONS.***

# ORDER CODES

| VERSIONS | ORDER CODES |
|---|---|
| Desktop Reader NEO 2 - LEGIC Version | R-DT-NEO2-LEGIC |
| Desktop Reader NEO 2 - LEGIC with HID | R-DT-NEO2-LEGIC-HID |
| Desktop Reader NEO 2 - LEGIC with VCP | R-DT-NEO2-LEGIC-VCP |

***ON REQUEST: SM4500, SM4500M, SM6300***

**iDTRONIC GmbH**
**Ludwig-Reichling-Straße 4**
**67059 Ludwigshafen**
**GERMANY**

**Phone:+49 (0)621 66 900 94-0**
**Mail: info@idtronic.de**
**Web: idtronic.de**