



LF Reader

DESKTOP READER EVO

APPLICATIONS

- Reading of ID and member cards
- Access / Time logging systems
- Payment, POS system, Loyalty
- R/W of transponder at PC
- NFC & mobile application
- PC Log-on; online payment

FEATURES

- Integrated antenna
- USB 1.1 / 2.0 compatible
- LED illuminated frame
- Supports EM4200, Hitag 1, 2 & S
- Power over USB
- SDK included
- KEMU optional via software
- Optional TEMIC version

RFID OPTIONS

- LF (125 kHz)

DESCRIPTION

Desktop Reader EVO LF is a sleek and compact RFID read / write device with integrated inductive antenna. Equipped with USB interface as standard, it also offers compatible keyboard emulation (KEMU) via software.

This 125 kHz LF Version reads and writes EM4x50, Hitag 1, Hitag 2, Hitag S, Titan (EM4050) and reads only EM4200, FDX-B, Unique, Zodiac and compatible tag types.

For TEMIC users we offer a special version with TEMIC 55x7 support.

EVO Desktop Reader LF allows reading ranges of up to 8 centimeters, depending on tag type and orientation. *

It is a versatile RFID device for various applications and work sites. A user friendly Software Development Kit and demo software for Windows operating systems are available for download.

UID OUTPUTS WITH HITAG TAGS

| | |
|-----------------------------|------------------|
| Desktop Reader EVO LF | 51009446F9 (LSB) |
| Desktop Reader EVO LF KEMU | 51009446F9 (LSB) |
| Desktop Reader EVO LF TEMIC | 51009446F9 (LSB) |

*Reading distance depends on tag, antenna and environmental conditions

TECHNICAL DATA

| ELECTRICAL SPECIFICATIONS | |
|---------------------------|---|
| Power Supply | USB (5 Vdc) |
| Current Consumption | 110 mA (idle), up to 140 mA on tag communication |
| Operating Frequency | 125 kHz |
| Operating Distance | up to 8 cm* |
| Antenna | integrated inductive antenna |
| Interface | USB VCP, USB 1.1 USB 2.0 Compatible, Keyboard emulation via software (Windows only) |
| Status Information | LED shows successful tag communication with colour change. |
| Connector | USB Mini B Socket |
| Signals | Multi-colour LED illuminated frame |

| MECHANICAL SPECIFICATIONS | |
|---------------------------|---------------------------------------|
| Dimensions | 126.5 × 69 × 27 mm |
| Material | ABS (Acrylonitrile butadiene styrene) |
| Protection Class | IP40 |
| Housing Colour | Anthracite |
| Weight | 170 g |

| ENVIRONMENTAL CONDITIONS | |
|--------------------------|---------------------------|
| Operating Temperature | -20°C ... +70°C |
| Storage Temperature | -20°C ... +70°C |
| Humidity | up to 95%, non condensing |
| MTBF | 200'000 h |

| SUPPORTED STANDARDS TAGS | |
|----------------------------|---|
| Read-only | EM4200, FDX-B, Unique, Zodiac, and compatible tag types |
| Read/write | Hitag 1, Hitag 2, Hitag S, Titan (EM4050), EM4450/4550 and compatible tag types |
| Temic version | Temic 55x7 |

| 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 | CE |

| SDK 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 |
| Communication Protocol | On start-up the device automatically reads the UID and transfers it to the USB VCP. In addition the device offers a simple command protocol for read/write operation. |
| Demo Software | Windows |

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

ORDER CODES

| Version | Order Code |
|----------------------------|------------------|
| Desktop Reader EVO LF | R-DT-EVO-LF |
| Desktop Reader EVO LF KEMU | R-DT-EVO-LF-KEMU |
| Desktop Reader EVO TEMIC | R-DT-EVO-TEMIC |

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