



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
- 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
- USB VCP or USB HID
- 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 VCP as standard, it is also available as USB HID version.

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 HID	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 HID, USB 1.1 USB 2.0 compatible
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

Versions	Order Codes
Desktop Reader EVO LF	R-DT-EVO-LF
Desktop Reader EVO LF HID	R-DT-EVO-LF-HID
Desktop Reader EVO TEMIC	R-DT-EVO-TEMIC

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