



HF 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 VCP
- LED illuminated frame
- Supports MIFARE Ultralight® and Classic
- Power over USB
- SDK included
- Optional HID version

RFID Options

- **HF** (ISO14443A/B, ISO15693, ISO18000-3)

Desktop Reader EVO HF is a sleek and compact RFID read / write device with integrated, linear polarized antenna. Equipped with USB interface as standard, it is also available with Human Interface Device (HID).

The 13.56 MHz HF Version supports ISO 14443A/B, ISO 15693 as well as ISO 18000-3, including NXP MIFARE Ultralight®, MIFARE® Classic 1K, MIFARE® Classic 4K, I-Code SLI, TI Tag-it HF-I and more.

EVO Desktop Reader HF allows reading ranges of up to 7 centimeters, depending on tag type and orientation.* Its compact design and LED illuminated frame distinguish the EVO from other RFID readers.

The EVO is a versatile read and write device for various applications and work sites. A user friendly Software Development Kit and demo software for Windows operating systems is available for download.

Technical Data

Electrical Specifications

Power Supply	USB (5 Vdc)
Current Consumption	< 90 mA
Operating Frequency	13.56 MHz
Operating Distance	up to 7 cm*
Antenna	integrated
Reader IC	NXP CLRC632
RF TX Speed	up to 424 kBd
Interfaces	USB VCP, HID**
Baudrate on VCP	9600...115200 Bd
Connector	USB Mini B Socket
HID Output Format	ISO 14443 A: hexadecimal, lowercase, byte-reverse, LSB ISO 15693: hexadecimal, lowercase, MSB The HID output format can be modified on request.
Signals	Multi-colour LED illuminated frame. Colour change indicates successful tag communication.

Mechanical Specifications

Dimensions	126.5 × 69 × 27 mm
Material	ABS (Acrylonitrile butadiene styrene)
Protection Class	IP40
Housing Colour	Anthracite
Weight	130 g

Environmental Conditions

Operating Temperature	-20 °C ... +70 °C
Storage Temperature	-20 °C ... +80 °C
Humidity	up to 95%, non condensing
MTBF	200'000 h

Supported Standards / Tags

ISO 14443 A and compatible	Read/write: MIFARE® Classic Mini / 1K / 4K, MIFARE Ultralight®, MIFARE® Smart MX, NTAG21x Read UID only: MIFARE Ultralight® C, MIFARE® Pro X, MIFARE® Plus S / X, read UID only of all other ISO14443A RFID tags
ISO 14443 B and compatible	SRI4K, SR1X4K, AT88RF020, 66CL160S, SR176
ISO 15693 and compatible	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)

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	FCC, CE, IC

SDK Information

Supported OS by Silabs USB VCP Driver	Windows 7/8/8.1/10 (v6.7.3) Windows XP/Server 2003/Vista/7/8/8.1 (v6.7) Windows 2K (v6.3a) WinCE (5.0, 6.0) Macintosh OSX (v4) Linux (3.x.x., 2.6.x) Android 4.2
Supported OS	Windows XP, Vista, 7, 8, 8.1, 10
Supported Languages	C, ASCII command protocol
Demo Software	Windows

* Reading distance depends on tag type and orientation.
** Human Interface Device

Order Codes

Version	Order Code
Desktop Reader EVO HF	R-DT-EVO-HF
Desktop Reader EVO HID	R-DT-EVO-HF-HID

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