



DESFire 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 all MIFARE® tags
- Power over USB
- SDK included
- Optional HID version

RFID Options

- HF (ISO14443A/B, ISO15693, ISO18092)

iDTRONIC's Desktop Reader EVO DESFire is a sleek and compact RFID read and write device. The powerful hardware is equipped with an integrated antenna and USB interface as standard. It is also available with Human Interface Device (HID).

The 13.56 MHz DESFire Version supports ISO 14443A/B, ISO 15693, as well as ISO 18092 transponders, including MIFARE® DESFire 2K / 4K / 8K, MIFARE Ultralight®, MIFARE® Plus, MIFARE® Classic 1K, MIFARE® Classic 4K, I-Code SLI, TI Tag-it HF-I and many more.

EVO Desktop Reader allows reading ranges of up to 8 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 RFID read and write device for various applications and work sites. A powerful and user-friendly Software Development Kit and demo software for Windows operating systems is available for download.

Additionally, the ASCII command protocol can be used to operate the hardware on any operating system.

Technical Data

Electrical Specifications

Power Supply	USB (5 Vdc)
Current Consumption	< 100 mA
Operating Frequency	13.56 MHz
Operating Distance	up to 8 cm*
Antenna	integrated
Baudrate on VCP	9600...115200 bit/s
Reader IC	CL 663
RF TX Speed	up to 848 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.
Status Information	LED shows successful tag communication with colour change.
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	140 g

Environmental Conditions

Operating Temperature	-20 °C ... +80 °C
Storage Temperature	-40 °C ... +85 °C
Humidity	up to 95 %, non condensing
MTBF	200'000 h

Supported Standards / Tags

ISO 14443 A and compatible	Read/write: MIFARE® DESFire®EV1 2K / 4K / 8K, MIFARE® Classic Mini / 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® Smart MX, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x Read UID only: 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

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	ASCII command protocol, VS2005 C++
Demo Software	Windows

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

Order Codes

Version	Order Code
Desktop Reader EVO DESFire	R-DT-EVO-DES-USB
Desktop Reader EVO DESFire HID	R-DT-EVO-DES-USB-HID

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