



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 (ISO 14443A/B, ISO 15693, ISO 18092)

DESCRIPTION

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 Ultralight® Nano, MIFARE Ultralight® C, MIFARE DESFire® Light MIFARE® Plus, MIFARE® Classic 1K, MIFARE® Classic 4K, I-Code SLI, I-Code SLI DNA, TI Tag-it HF-I, NTAG 424 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.

UID OUTPUTS WITH MIFARE TAGS

Desktop Reader EVO DESFire	06ADBEC3 (LSB)
Desktop Reader EVO DESFire HID	06ADBEC3 (LSB)
Desktop Reader EVO DESFire PC/SC	06ADBEC3 (LSB)

*Reading distance depends on tag, antenna and environmental conditions

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	
Power Supply	USB (5Vdc)
Current Consumption	< 100mA
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	140g

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

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 Ultralight® Nano, MIFARE DESFire® Light, MIFARE® Smart MX, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x, NTAG 424 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, I-Code SLI DNA, 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 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

Versions	Order Codes
Desktop Reader EVO DESFire	R-DT-EVO-DES-USB
Desktop Reader EVO DESFire HID	R-DT-EVO-DES-USB-HID

iDTRONIC GmbH
Ludwig-Reichling-Straße 4
67059 Ludwigshafen
GERMANY

Phone +49 (0) 621 66 90 09 4-0
Fax +49 (0) 621 66 90 09 4-9
E-Mail: info@idtronic-rfid.com
Web: idtronic-rfid.com

For further information & prices, please contact info@idtronic-rfid.com

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