

EVO Desktop Reader HF 2.0

ID DESK 2000

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
- Cloud Solutions

Features

- Two operating modes (HID & VCP)**
- HID with configurable output
- VCP with full r/w access
- Integrated antenna
- USB 3.0 interface
- LED illuminated frame

RFID Options

- HF (ISO 14443A, ISO 15693, ISO 18000-3)

iDTRONIC's EVO Desktop Reader HF 2.0 is now available in an updated version. It is perfect for system integrators seeking simple reader development and integration.

This new versatile reader supports two modes of operation via USB: a virtual comport (VC) or a Human Interface Device (HID).**

The VC mode has a complete read and write access. It is designed for Industry 4.0 applications and may be easily integrated into any operating system.

The HID mode works with the keyboard emulation mode. Beside different UID (Serial Numbers) formats, the reader can set to read out different parts of the user memory as well. The HID mode is perfectly suited for web applications in heterogeneous IT cloud environments.

The EVO Desktop Reader HF 2.0 is a successor to the compact EVO Desktop Reader HF RFID reader and writer device, with integrated antenna. The EVO Desktop Reader HF 2.0 allows reading ranges of up to 10 centimeters, depending on tag type and orientation.*

The 13.56 MHz HF Version supports ISO 14443A, 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.

The EVO Desktop Reader HF 2.0 is a versatile read and write device for various applications and work sites. A user friendly software development kit and configuration tool for Windows operating systems is provided, as well as an operating-system-independent command protocol.

*Reading distance depends on tag, antenna and environmental conditions
**further information on the next page

Software Settings to Configure Output Format

Operating Modes:

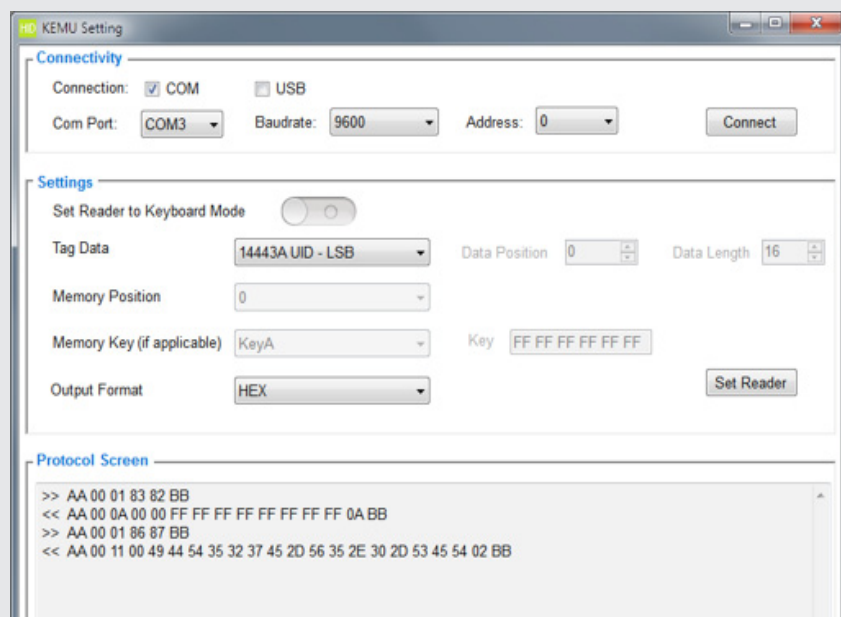
There are two working modes available on the EVO Desktop Reader HF 2.0:

HID Mode = keyboard emulation (Read Only)

VC Mode = virtual ComPort (Read / Write Access)

With the HID mode, users can retrieve data from the transponders as keyboard emulation. The output can be configured from various ways. Beside different UID (Serial Numbers) formats, the reader may be set to read out different parts of the user memory in various formats. The configuration can be done via a configuration tool which is compatible with Windows OS.

The VC mode offers fully read / write access to all supported transponder types. The device can be operated via demo software, sample source codes, and a USB driver on Windows OS. Other operating systems are supported via a serial command protocol and a virtual ComPort interface based on a SiliconLabs chipset.



Supported Features	VC Mode (Read/Write)	HID Mode (Read Only)
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)	X	X
Apple MacOS X		X
Linux (3.x.x., 2.6.x)	X	X
Android (requires USB host)		X
UID capturing	X	X
Memory Read	X	X
Memory Write	X	
Anti Collision	X	
All commands available (transparent command)	X	

Technical Data

Electrical Specifications	
Power Supply	USB (5 Vdc)
Current Consumption	< 90 mA
Operating Frequency	13.56 MHz
Operating Distance	up to 10 cm*
Antenna	integrated
Reader IC	NXP CLRC632
RF TX Speed	up to 424 kBd
Interfaces	USB 3.0 VCP, HID**
Baudrate on VCP	9600...115200 Bd
Connector	USB Mini B Socket
HID Output	ISO 14443 A: hexadecimal, lowercase, byte-reverse, LSB (factory-set) ISO 15693: hexadecimal, lowercase, MSB The HID output format can be changed 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	-25 °C ... +70 °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®, NTAG21x Read UID only: MIFARE Ultralight® C, MIFARE® Pro X, MIFARE® Plus S / X, read UID only of all other ISO14443A RFID tags
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
EVO Desktop Reader HF 2.0	R-DT-EVO-HF2

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-wellfit.de
Web: idtronic-wellfit.de

For further information & prices, please contact info@idtronic-wellfit.de

Subject to alteration without prior notice
©2019 iDTRONIC GmbH