iDTRONIC
PROFESSIONAL RFID

HF | NFC ACCESS READER
EVO

PRODUCT DESCRIPTION

The HF | NFC Access Reader EVO is a professional RFID reader and writer for HF RFID 13.56 MHz frequenices. It was especially developed for wall mounting beside doors or entrances and is also available as read-only version.

It is designed for indoor use and has a modern and elegant design with tricolor LED frame and buzzer.

It is available with Ethernet TCP/IP or RS485 interface for easy implementation and integration within exisiting networks. Thanks to its integrated relay, it is possible to switch doors automatically.

iDTRONIC's HF | NFC Access Reader EVO comes with a useful SDK for the development of controller, Linux or Windows based applications. Beside the documentation, command protocols, the SDK includes a Windows based demo application with full functionality over all supported HF RFID standards.

▶ APPLICATIONS

- **Access Control**
- **Time Attendance**
- **Turnstiles**

▶ FEATURES

- **LED Light Frame**
- **Integrated Relay**
- **Integrated Antenna**
- **Ethernet TCP/IP Interface**

▶ RFID OPTIONS

- ISO 14443A
  Read/Write: MIFARE® Classic / Mini / 1K / 4K, MIFARE Ultralight®, MIFARE Ultralight® C, NTAG21x
  Read UID only: MIFARE® DESFire, MIFARE® Pro X, MIFARE® Plus S / X, read UID only of all other ISO14443A RFID tags

- ISO 14443B
  SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176

- ISO 15693
  EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)

iDTRONIC GmbH
Ludwig-Reichling-Straße 4
67059 Ludwigshafen
GERMANY

Phone:+49 (0)621 66 900 94-0
Mail: info@idtronic-rfid.com
Web: idtronic-rfid.com

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TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	
Power Supply	12 Vdc (±5 % regulated)
Current Consumption	< 180 mA (RFID active, relay ON)
Operating Frequency	13.56 MHz
Operating Distance	up to 7 cm*
Antenna	Integrated
Interfaces	Ethernet TCP/IP, RS485
Writing / Reading	Max. 424 kbps
Input / Output	1 Relay C-NC-NO
Relay	Max. switching power: 30 W / 37.5 VA Max. switching voltage: 220 Vdc / 250 Vac Max. switching current: 1 A Max. carrying current: 1 A Initial contact resistance: Maxi. 100 mΩ (initial)
Signals	Buzzer Tricolor LED on Antenna

MECHANICAL SPECIFICATIONS	
Dimensions	110 × 56 × 18 mm
Weight	50 g

ENVIRONMENTAL CONDITIONS	
Operating Temperature	-10 °C ... +50 °C
Storage Temperature	-20 °C ... +60 °C
Humidity	up to 95 %, non condensing

* Reading distance depends on tag type and orientation.

SUPPORTED STANDARDS | TAGS	
ISO 14443 A	Read/write: MIFARE® Classic / Mini / 1K / 4K, MIFARE Ultra-light®, MIFARE Ultralight® C, NTAG21x Read UID only: MIFARE® DESFire, MIFARE® Pro X, MIFARE® Plus S / X, read UID only of all other ISO14443A RFID tags
ISO 14443 B	SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
ISO 15693	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 7, 8, 8.1, 10
Supported Languages	Read & Write Versions: Binary ASCII command protocol, VS2005 C++Library Read Only Version: ASCII command protocol
Demo Software	Windows

ORDER CODES

VERSIONS	ORDER CODES
HF | NFC Access Reader EVO - TCP / IP	R-EA-WR-ET-HF
HF | NFC Access Reader EVO - RS485	R-EA-WR-485-HF
HF | NFC Access Reader EVO - TCP / IP (Read-Only)	R-EA-WR-ET-HF-RO

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