

HF | NFC ACCESS READER NEO



PRODUCT DESCRIPTION

HF | NFC Access Reader NEO is a sleek and compact RFID read / write device with integrated antenna. It is equipped with RS485 MOD-BUS interface.

The 13.56 MHz HF Version supports standard ISO 14443 A and reads and writes MIFARE® Classic Mini, 1K and 4K transponder.

HF | NFC Access Reader NEO allows reading ranges of up to 5 centimeters, depending on tag type and orientation. Its compact and sleek design with LED status indicator distinguish the RFID reader from other readers.

The HF | NFC Access Reader NEO is a versatile read and write device for various applications and work sites.

iDTRONIC's HF | NFC Access Reader NEO 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

- Reading of ID and member cards
- Access / Time logging systems
- Payment, POS System, Loyalty
- R/W of transponder at PC
- Mobile application
- PC Log-on; online payment

▶ FEATURES

- Integrated antenna
- RS485 interface
- LED indicator
- Supports MIFARE Classic®
- Power 5V or 12V
- SDK included

▶ RFID OPTIONS

- ISO 14443A
Read/Write:
MIFARE® Classic / Mini / 1K / 4K

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	5 V (pigtail cable) or 12 V
Current Consumption	< 90 mA
Operating Frequency	13.56 MHz
Operating Distance	up to 5 cm*
Antenna	integrated
Reader IC	NXP CLRC632
RF TX Speed	up to 424 kBd
Interfaces	RS485 - MODBUS
Baudrate on VCP	9600...115200 Bd
Connector	10 cm pigtail cable (power & data)
Signals	Status LED

MECHANICAL SPECIFICATIONS

Dimensions	100 × 46 × 20 mm
Material	ABS (Acrylonitrile butadiene styrene)
Protection Class	IP40
Housing Colour	Black
Weight	48 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
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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.

ORDER CODES

VERSIONS	ORDER CODES
HF NFC Access Reader NEO - RS485	R-EA-WR-ID500-HF-485