



Access Reader HF | NFC

NEO



PRODUCT DESCRIPTION

HF | NFC Access Reader NEO is a sleek and compact RFID read / write device with an integrated antenna. It is equipped with either an Ethernet, RS485 (Modbus), Wiegand or USB 2.0 interface.

The 13.56 MHz HF Version supports the standards ISO 14443 A/B and ISO 15693. It reads and writes MIFARE® Classic Mini, 1K and 4K, Plus, SMART, DESFire, Ultralight or NTAG transponders.

HF | NFC Access Reader NEO allows for reading ranges of up to 5 centimeters, depending on tag type and orientation. Its compact and sleek design with LED status indicator and IP65 protection class distinguish the RFID reader from other readers.

The HF | NFC Access Reader NEO version with the Ethernet interface is equipped with an additional inputs/output (I/O) providing flexibility for your system integration.

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
- Employee identification on production lines
- Payment, POS System, Loyalty
- R/W of transponder at PC
- Mobile application
- PC Log-on; online payment

FEATURES

- Integrated antenna
- Ethernet, RS485 (Modbus), Wiegand or USB interface
- LED indicator
- IP65 Protection
- Power 5V or 12V
- SDK included

RFID OPTIONS

- HF | NFC
 - ISO 14443A/B
 - ISO 15693

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	5 V (pigtail cable) or 12 V
Power Consumption	< 90 mA
Operating Frequency	13.56 MHz
Operating Distances	up to 5 cm*
Reader IC	NXP CLRC632
Antenna	integrated
RF TX Speed	up to 424 kBd
Input / Output	1x Relay C-NC-NO 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
Baudrate on VCP	9600 - 115200 Bd
Interface	Ethernet (1x I/O), RS485 (MODBUS), Wiegand (26 or 34bit), USB-VCP or USB-HID
Connectors	10 cm pigtail cable (power & data)
Status	Status LED

MECHANICAL SPECIFICATIONS

Dimensions	100 × 46 × 20 mm
Material	ABS (Acrylonitrile butadiene styrene)
Weight	48 g
Housing Color	Black

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20 °C up to +70 °C
Storage Temperature	-20 °C up to +80 °C
Humidity	up to 95 %, non condensing
Protection Class	IP65
MTBF	200'000 h

SDK INFORMATION

Supported OS by Silabs USB VCP Driver	Windows 7/8.1/10 (v6.7.3) Windows XP/Server 2003/ Vista/7/8/8.1 (v6.7) Windows 2K (v6.3a) WinCE (5.0, 6.0) Macintosh OS X (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

SUPPORTED STANDARDS / TAGS

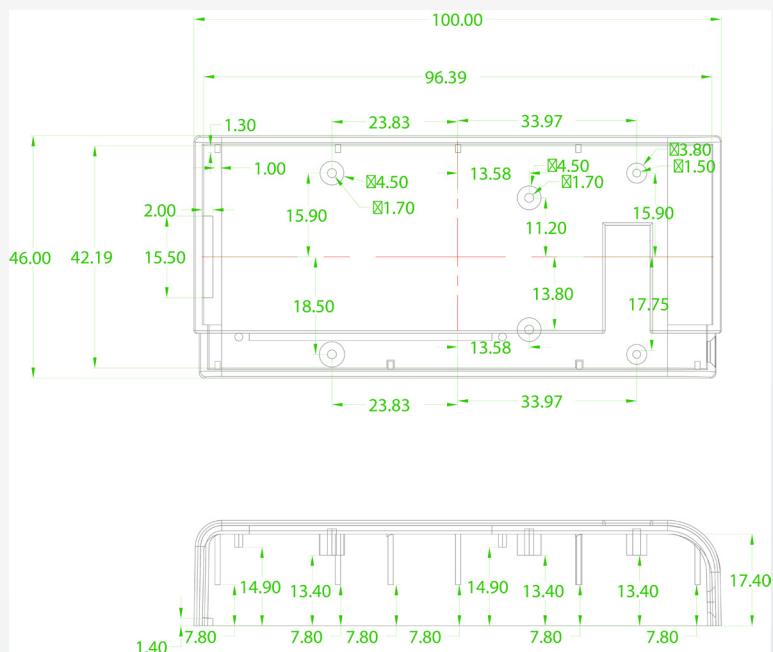
ISO 14443A and compatible	Read/write: MIFARE® Classic Mini/1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE Ultralight® Nano, MIFARE® DESFire®EV1, MIFARE® DESFire® Light, MIFARE® Smart MX, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x, NTAG 424
ISO 14443B and compatible	Read UID only of all other ISO14443A: RFID tags
ISO 15693 and compatible	SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
ISO 15693 and compatible	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI/SLIX/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, IC

*READING DISTANCE DEPENDS ON TAG TYPE AND ORIENTATION.

MECHANICAL DRAWING



ORDER CODES

	5V	12V
VERSIONS	ORDER CODES	
Ethernet + IO	---	R-EA-WR-ID500-ETH
USB-VCP	R-EA-WR-ID500-USB	---
USB-HID	R-EA-WR-ID500-HID	---
Modbus RTU	---	R-EA-WR-ID500-485
Wiegand 26bit	---	R-EA-WR-ID500-W26
Wiegand 34bit	---	R-EA-WR-ID500-W34