Panel Reader HF

NEO

PRODUCT DESCRIPTION

The HF | NFC Panel Reader NEO with keyfob holder is designed for integration in switch panels or cabinets in industry 4.0 and production automations. The most common application for this panel reader is for access control at machines.

HF | NFC Panel Reader NEO has an integrated antenna and can achieve reading distances of up to 2 centimeters within industrial environments. The robust housing withstands in demanding areas with its IP65 protection class.

The HF | NFC Panel Reader NEO comes with a USB, RS232, PC/SC, HID interface.

iDTRONIC's HF | NFC Panel 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

- **Automation**
- **Industry 4.0**
- **Supply Chain**

FEATURES

- **RFID Panel Reader with holder for RFID Keyfobs**
- **USB, RS232, PC/SC, HID**
- **IP65 Protection Class**
- **5 V Power Supply**
- **Integrated Antenna**

RFID OPTIONS

- **HF | NFC (ISO 14443A/B, ISO 15693)**
- **ISO 18000-3M3/EPC HF Gen2**
- **HID iClass**

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TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	
Power Supply	5 Vdc via USB or RS232
Power Consumption	100 mA, standby current < 1 mA (low power mode)
Operating Frequency	13.56 MHz
Operating Distances	up to 2 cm*
Reader IC	CL 663
RF TX Speed	up to 848 kBd
Antenna	Integrated*
Antenna Baudrate	9600…115200 bit/s, 115.200 bits/s default
Connectors	USB, RS232, PC/SC, HID
Power Supply	5 Vdc
Protection Class	IP65
Operating Modes	Cyclic transmission with individual transmission (continuous operation) or manual transmission (on/off)
LED	Status Indication

MECHANICAL SPECIFICATIONS	
Dimensions	Panel cut-out: ø 22.3 mm Cable Length: 80 cm (other lengths on request)
Material	ABS (Acrylonitrile butadiene styrene)
Weight	35 g
Colors	silver-coloured, stainless steel, polished, 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
MTBF	200‘000 h

SDK INFORMATION	
Supported OS by Silabs USB VCP Driver	Windows 7/8/8.1/10 (v6.7.3) Windows XP/Server 2003/ Vita/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 Languages	Binary ASCII command protocol, VS2005 C++Library
Demo Software	Windows

SUPPORTED STANDARDS / TAGS	
ISO 14443 A and compatible	**Read/Write:** MIFARE® Classic Mini / 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® DESFire®EV1, MIFARE® Smart MX, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x **Read UID only:** Read UID only of all other ISO14443A RFID tags
ISO 14443 B and compatible	SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
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 and amendment 2015/863 EN 50581:2012 (valid till 2024-07-07) EN 63000:2018
Reach	EU Guideline 1907/2006, updated by 2018/2005/EU

READING DISCTANCE DEPENDS ON TAG, ANTENNA AND ENVIRONMENTAL CONDITIONS.

ORDER CODES

VERSIONS	ORDER CODES
HF | NFC Panel Reader NEO - USB	R-PROF-RRJ-RFID-USB
HF | NFC Panel Reader NEO - RS232	R-PROF-RRJ-RFID-RS232
HF | NFC Panel Reader NEO - USB	R-PROF-RRJ-RFID-PC/SC
HF | NFC Panel Reader NEO - USB	R-PROF-RRJ-RFID-HID

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