iDTRONIC
PROFESSIONAL RFID

DESKTOP READER
NEO HF

APPLICATIONS

- E-Banking | E-Shopping
- Internet Security
- Software Lock
- Telecom & Postal
- E-Wallet Charging & Check

FEATURES

- Integrated KEMU
- Integrated Antenna
- Supports MIFARE and DESFire
- Read & Write
- Bi-Colored LED Signal
- USB Plug & Play

RFID OPTIONS

- **HF** (ISO14443A)

PRODUCT DESCRIPTION

Desktop Reader NEO HF is a cost-efficient plug and play RFID read and write reader with integrated Keyboard Emulation (KEMU) and USB 2.0 interface.

This HF Version supports ISO Standard ISO/IEC 14443A. It achieves reading ranges from 3 to 4 cm with MIFARE DESFire, NTAG 203/213/215/216 Contactless CPU Series Cards and 5 to 6 cm with MIFARE series cards.

With its USB 2.0 interface, the compact reader can be easily connected to a PC or any other USB port equipped device.

It enables the usage of RFID for a wide variety of applications in industry and commerce, telecom, postal, banking plus health care. Especially for applications where a lower reading ranges are required, this HF version is well suited. For example in access control areas within companies where security is required.

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	5 VDC via USB
Current	<150 mA
Operating Frequencies	HF: 13.56 MHz
Max. Power	max 100 mW (20 dBm)
Operating Distances	3 ~ 4 cm (for contactless CPU cards, such DESFire series cards) | 5 ~ 6 cm (for Mifare Classic series cards)*
Standard UID Output	10H Hexadecimal
Antenna	integrated
Memory	64 kb Flash memory 20 kb RAM
Operating Systems	Windows 7 Linux
Status	1 Bi-color LED 1 Buzzer
Interfaces	USB 2.0
Keyboard Emulation	integrated (Keyboard Layout: QWERTY)

MECHANICAL SPECIFICATIONS

Dimensions	99 × 99 × 22 mm
Housing Colour	black | silver

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20 °C ... +70 °C
Storage Temperature	-20 °C ... + 80 °C
Humidity	up to 95%, non condensing

*Reading distance depends on tag and environmental conditions

SUPPORTED STANDARDS | TAGS

HF: ISO/IEC 14443A

MIFARE Classic S50, MIFARE Classic S70, MIFARE Ultralight, MIFARE DESFire, NTAG 203/213/215/216
Contactless CPU Series Cards

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
Certificate	FCC, CE

SDK INFORMATION

Supported OS	Windows 7, 8, 8.1, 10
Supported Languages	C++, C#, .net, Java, binary command protocol
USB Driver OS	Windows NT based Windows 10 certified Linux (built-in)
Demo Software	Windows
Engineering Mode	License can be acquired separately

ORDER CODES

VERSION	ORDER CODE
HF	R-DT-NEO-HF-KEMU