iDTRONIC
PROFESSIONAL RFID

NFC | NDEF
DESKTOP READER
NEO 2

PRODUCT DESCRIPTION

NFC | NDEF Desktop Reader NEO 2 is a modern and sleek plug-and-play RFID read and write device with integrated VCP mode and USB 2.0 interface. It is the perfect RFID reader for the mass production of RFID tags with NDEF contents and is suitable for a wide variety of applications in commerce, telecom, industry, banking or healthcare.

NDEF is a standardized data format which allows NFC-enabled devices (Smart Phones, Tablets, etc.) to read or write on an NFC card or an NFC tag. The NDEF format is used to store data such as URLs, text files or digital business cards. NFC-enabled chips like the MiFare© NTAG© or DesFire© can be configured with NDEF. One or more so-called NDEF records can be stored on it and each one can have it's own task.

A wide range of applications can be supported. For example, in industry settings, a vCard gets you in touch with the service support team in case of system malfunctioning. Quick referrals to operating manuals and other kinds of assistance can be linked to a URL. Additionally, product information stored in the tag can reduce the cost of identifying items, goods, inventories, etc.

This innovative desktop reader supports NDEF-compatible IC chips. For example, it reads transponder and tags with MIFARE® Classic, MIFARE®DESFire and NTAG chips.

NFC | NDEF Desktop Reader NEO 2 is certified according to RoHS 2 and REACH. It is supplied with a software development kit for Windows systems. This supports the programming languages: Binary command protocol. With the help of our demo software introduction, the SDK simplifies the connection to your existing systems.

▶ APPLICATIONS

· E-Banking | E-Shopping
· Access Control
· Product Diagnostics
· Device-to-Device Communication
· POS Marketing / Advertising

▶ FEATURES

· VCP Mode
· USB 2.0 Interface
· Integrated Antenna
· Read & Write Mode
· LED and Buzzer Signal
· USB Plug & Play Mode

▶ RFID OPTIONS
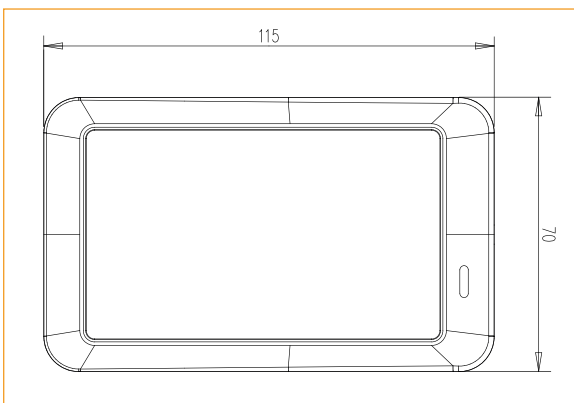
· NFC | NDEF (NDEF-Compatible Tags)

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	USB
Power Consumption	<200 mA
Operating Frequencies	NFC: 13.56 MHz
Operating Distances	3 cm*
Antenna	integrated
Status	1x Bi-color LED 1x Buzzer
Interfaces	USB 2.0 VCP, CH340E Chip
Connection	120 cm long cable with USB- Type-A plug

MECHANICAL SPECIFICATIONS

Dimensions	115 × 70 × 17 mm without USB cable
Weight	90 g incl. USB cable
Housing	ABS (black)

ENVIRONMENTAL CONDITIONS

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

SDK INFORMATION

Supported OS	Windows XP, Vista, 7, 8, 8.1, 10
Supported Languages	Binary command protocol
Demo Software	Windows

SUPPORTED STANDARDS | TAGS

NFC | NDEF: 13.56 MHz

NDEF compatible	Read/write: MIFARE® Classic/1K/4K, MIFARE® DESFire® EV1/2/3, MIFARE® Ultralight/C/EV1, ICODE SLI, SRF55Vxx (my d-vicinity), Tag-it, NTAG 21x, NFC Forum Tag type 2/4/5

APPLICABLE STANDARDS

EMC	EN 301489-1:2019-11 (v2.2.3) EN 301489-3:2019-03 (V2.1.1)
Radio Regulation	EN 300330-1:2015-03 (V1.8.1) EN 300330-2:2015-03 (V1.6.1)
Safety	EC 62368-1:2018-10 (V3.0, valid as of 2020-12-20)
RoHS 2	EC Guideline 2011/65/EU and amendment 2015/863/EU, updated by 2017/2102/EU EN 50581:2012 (valid till 2024-07-07) EN 63000:2018
REACH	EU Guideline 1907/2006, updated by 2020/171/EU
Certificates	FCC, CE

ORDER CODE

Desktop Reader NEO 2 - NFC	NDEF	R-DT-NEO2-NDEF

*Reading distance depends on tag and environmental conditions

PRODUCT DIMENSIONS