



LF Desktop Reader

NEO 2



PRODUCT DESCRIPTION

The LF Desktop Reader NEO 2 by iDTRONIC GmbH is a high-performance RFID reader and writer with USB connectivity, designed for applications such as PC log-on, document management, retail, fitness, and healthcare.

This LF RFID desktop reader operates at 125 kHz and supports various LF transponders, including EM4200 (read-only) and Hitag-1 / Hitag-S (read/write). It features a combined VCOM (read/write) and HID (keyboard emulation) functionality, enabling seamless integration into diverse system environments.

The configurable HID output retrieves data from transponders as keyboard emulation, with multiple customizable output formats, managed via a Windows OS configuration tool.

The device is available with a software development kit (SDK) for Windows and supports a binary command protocol for integration with other operating systems or microcontrollers. It is CE (RED) and FCC certified and complies with RoHS 2 and REACH standards.

The LF Desktop Reader NEO 2 is a reliable and efficient solution for low-frequency RFID applications, providing seamless integration and high performance for various industrial and commercial environments.

APPLICATIONS

- PC log-on
- Document Management
- Retail
- Fitness
- Healthcare

FEATURES

- USB Interface
- HID or VCOM
- Integrated Antenna
- LED and Buzzer Signal

RFID OPTIONS

- LF
(EM4200, Hitag-1, Hitag-S)



TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	USB
Power Consumption	<200 mA
Operating Frequency	LF: 125 kHz
Operating Distances	LF: 5cm
Antenna	integrated
Status	1x Bi-color LED 1x Buzzer
Interface	USB - Virtual ComPort USB - Virtual ComPort + HID USB - HID
Connections	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 up to +70 °C
Storage Temperature	-20 °C up to +80 °C
Humidity	up to 95%, non condensing

STANDARD UID OUTPUT

Desktop Reader EVO LF 2.0	LSB
Desktop Reader EVO LF 2.0 HID	LSB

SUPPORTED FEATURES

UID capturing	Yes
Memory Read	Yes
Memory Write	Yes

SDK INFORMATION

Supported OS	Windows 10, 11
Supported Languages	Binary command protocol, VS2005 C++
Demo Software	Windows

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

SUPPORTED STANDARDS / TAGS

RFID LF: 125 kHz	
Read-only	EM4200 and compatible
FDX-B	Read information
Read/write	Hitag-1, Hitag-S

***READING DISTANCE DEPENDS ON TAG, ANTENNA AND ENVIRONMENTAL CONDITIONS.**

ORDER CODES

VERSIONS

Desktop Reader NEO 2 - LF Version
Desktop Reader NEO 2 - LF Version, preconfigured to HID

ORDER CODES

R-DT-NEO2-LF
R-DT-NEO2-LF-HID