



## UHF Desktop Reader

# NEO 2



## PRODUCT DESCRIPTION

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

This UHF RFID desktop reader operates at 868 MHz (ETSI) and 902–928 MHz (FCC) and complies with ISO 18000-63 (EPC Class 1 Gen 2) global UHF standards. It supports read and write functionality for a variety of UHF transponders and enables efficient, long-range data capture.

The device offers VCOM (read/write) and HID (keyboard emulation) functionality, allowing seamless data retrieval from RFID tags. The HID output can be configured via a Windows OS configuration tool, providing customizable data formats for integration into various system environments.

A software development kit (SDK) for Windows and a binary command protocol ensure smooth integration into other operating systems and microcontroller-based applications. The device is CE (RED) and FCC certified and complies with RoHS 2 and REACH standards.

The UHF Desktop Reader NEO 2 is a robust and versatile RFID solution, delivering high performance and seamless integration, making it ideal for industrial, commercial, and IoT applications.

## APPLICATIONS

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

## FEATURES

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

## RFID OPTIONS

- UHF  
(EPC C1 GEN2 | ISO 18000-63)



## TECHNICAL DATA

### ELECTRICAL SPECIFICATIONS

Power Supply	USB
Power Consumption	<200 mA
Operating Frequency	UHF: 868 MHz (ETSI), 902-928 MHz
Operating Distances	UHF: 15cm
Antenna	integrated
Status	1x Bi-color LED 1x Buzzer
Interface	USB - Virtual ComPort 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 UHF 2.0	LSB
Desktop Reader EVO UHF 2.0 HID	LSB

### SUPPORTED FEATURES

UID capturing	Yes
Memory Read	Yes
Memory Write	Yes
Anti Collision	Yes

### SDK INFORMATION

Supported OS	Windows XP, 8, 8.1, 10
Supported Languages	C++, C#, .net, Java, binary command protocol
Demo Software	Windows

### APPLICABLE STANDARDS

EMC	UHF 301489-1:2019-11 (v2.2.3) UHF 301489-3:2019-03 (V2.1.1)
Radio Regulation	UHF 300330-1:2015-03 (V1.8.1) UHF 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 63000:2018
REACH	EU Guideline 1907/2006, updated by 2020/171/EU
Certificates	FCC, CE

### SUPPORTED STANDARDS / TAGS

<b>RFID UHF: 868 MHz (ETSI), 902-928 MHz (FCC)</b>	
ISO 18000-63	Global UHF frequencies

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

## ORDER CODES

### VERSIONS

Desktop Reader NEO 2 - UHF Version
Desktop Reader NEO 2 - UHF Version with HID
Desktop Reader NEO 2 - Dual Frequency UHF + HF Version
Desktop Reader NEO 2 - Dual Frequency UHF + HF Version, preconfigured to HID

### ORDER CODES

R-DT-NEO2-UHF
R-DT-NEO2-UHF-HID
R-DT-NEO2-UHF/HF
R-DT-NEO2-UHF/HF-HID