

UHF Desktop Reader

NEO 2



PRODUCT DESCRIPTION

The UHF Desktop Reader NEO 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

RFID UHF: 868 MHz (ETSI). 902-928 MHz (FCC)	
ISO 18000-63	Global UHF frequencies

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

ORDER CODES

VERSIONS	ORDER CODES
Desktop Reader NEO 2 - UHF Version	R-DT-NEO2-UHF
Desktop Reader NEO 2 - UHF Version with HID	R-DT-NEO2-UHF-HID
Desktop Reader NEO 2 - Dual Frequency UHF + HF Version	R-DT-NEO2-UHF/HF
Desktop Reader NEO 2 - Dual Frequency UHF + HF Version, preconfigured to HID	R-DT-NEO2-UHF/HF-HID