UHF DESKTOP READER

NEO

PRODUCT DESCRIPTION

Desktop Reader NEO UHF is a cost-efficient plug and play RFID device. It is available with integrated Keyboard Emulation (HID) Read Only Version.

This UHF Version supports ISO Standard 18000-63 EPC Class 1 Generation 2 transponders, as well as global UHF frequencies ETSI (865 – 868 MHz) and FCC (902 – 928 MHz). It achieves reading ranges of up to 30 cm.

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 higher reading range is required, this UHF version is well suited. For example first inscription in offices for containers or trucks.

INTERHA
IDENTIFICATION IS EVERYTHING

▶ APPLICATIONS

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

▶ FEATURES

· **HID Read Only Version**
· **Integrated Antenna**
· **ETSI + FCC Frequencies**
· **Bi-Colored LED Signal**
· **USB Plug & Play**

▶ RFID OPTIONS

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

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	5 VDC via USB
Current	<150 mA
Operating Frequencies	UHF: 865 – 868 MHz 902 – 928 MHz*
Max. Power	max 100 mW (20 dBm)
Operating Distances	up to 30 cm**
Antenna	integrated
Standard UID Output	10H Hexadecimal
Keyboard Emulation	integrated (Keyboard Layout: QWERTY)
Operating Systems	all that support HIDs (Keyboard, Mouse)
Interfaces	USB 2.0 HID
Status	1 Bi-color LED 1 Buzzer

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

* Including 915 – 928 MHz sub-band
**Reading distance depends on tag and environmental conditions

SUPPORTED STANDARDS | TAGS

Standard ISO 18000-63 (EPC Class 1 Generation 2)

APPLICABLE STANDARDS

EMC	EN 301489-1:2012-04 (v1.9.21) EN 301489-3:2019-03 (V2.1.1)
Radio Regulation	EN 302208-2:2015-02 (V2.1.1)
Safety	EN 60950-1:2014-08 (valid till 2020-12-19) 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

SDK INFORMATION (ONLY FOR READ & WRITE)

Supported OS by Silabs USB VCP Driver	Windows 7/8/8.1/10 (v6.7.3) Windows XP/Server 2003/Vista/7/8/8.1 (v6.7) Windows 2K (v6.3a) WinCE (5.0, 6.0) Macintosh OSX (v4) Linux (3.x.x., 2.6.x) Android 4.2
Supported OS	Windows 7, 8, 8.1, 10
Supported Languages	C++, .NET, binary command protocol
Demo Software	Windows

ORDER CODES

VERSIONS	ORDER CODES
NEO Desktop Reader UHF (HID)	R-DT-NEO-UHF-HID