



# UHF Reader

## DESKTOP READER EVO

### APPLICATIONS

- Reading of ID and member cards
- E-Ticketing
- Payment, POS System, Loyalty
- Retail / Libraries
- Personalization station
- Identification / Access

### FEATURES

- Multi-read UHF
- Integrated antenna
- SW programmable power
- Supports ETSI & FCC band
- Power over USB
- SDK included
- Optional HID version

### RFID OPTIONS

- UHF (EPC C1 GEN2 / ISO18000-6C)

### PRODUCT DESCRIPTION

Desktop Reader EVO is a sleek and compact RFID reader with integrated, linear polarized antenna. Equipped with USB interface as standard, it is also available with Human Interface Device (HID).

This UHF Version supports ISO Standard 18000-6C EPC Class 1 Generation 2 transponders, as well as global UHF frequencies ETSI (865 – 868 MHz) and FCC (902 – 928 MHz).

EVO Desktop Reader UHF allows reading ranges of up to 30 centimeters, depending on tag type and orientation.\* Max. power output of 100 mW (+20 dBm) can be regulated via software in 1dB steps.

The EVO UHF is a versatile read and write device for various applications and work sites. A Software Development Kit for all Windows operating systems is available for download.

### UID OUTPUTS WITH ALIEN TAGS

Desktop Reader EVO UHF HID	0D-B0-10-18-83-11-01-47-15-30-75-55 (LSB)
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## TECHNICAL DATA

### ELECTRICAL SPECIFICATIONS

Power Supply	USB (5Vdc)
Current Consumption	up to 350 mA (High Powered Port needed)
Operating Frequency	865 – 868 MHz (ETSI) 902 – 928 MHz (FCC) 916 – 923.4 MHz (Japan)
Max. Power	max 100 mW (+20 dBm) software programmable in 1dB steps
Operating Distance	up to 30 cm*
Antenna	integrated, linear polarised
Reader IC	AMS AS3992
RF TX Speed	up to 640 kHz Link Frequency
Interfaces	USB VCP, HID**
HID Output Format	EPC only, hexadecimal, lowercase, MSB <i>HID Output of EPC Memory of UHF Tags will be displayed.</i>
Connector	USB Mini B Socket

### MECHANICAL SPECIFICATIONS

Dimensions	126.5 × 69 × 27 mm
Material	ABS (Acrylonitrile butadiene styrene)
Protection Class	IP40
Housing Colour	Anthracite
Weight	95 g

### ENVIRONMENTAL CONDITIONS

Operating Temperature	-10 °C ... +50 °C
Storage Temperature	-20 °C ... +70 °C
Humidity	up to 95%, non condensing
MTBF	200'000 h

### SUPPORTED STANDARDS/TAGS

Standard ISO 18000-6C (EPC Class 1 Generation 2)  
E.g.: Alien Higgs 2/3/4, Impinj Monza, NXP UCODE, etc.

### APPLICABLE STANDARDS

EMC	EN 301489-1:2012-04 (v1.9.21) EN 301489-3:2013-12 (V1.6.1)
Radio Regulation	EN 300330-1:2015-08 (V1.8.1) EN 300330-2:2015-08 (V1.6.1)
Safety	EN 60950-1:2014-08 EN 62369-1:2010-03 EN 50364:2010-11
RoHS	EC Guideline 2011/65/EU
Certificate	FCC, CE

### SDK INFORMATION

Supported OS	Windows 7, 8, 8.1, 10
Supported Languages	C++, C#, .net, Java, binary command protocol
USB Driver OS	Windows NT based Windows 10 certified Linux (built-in)
Demo Software	Windows
Engineering Mode	License can be acquired separately

\* Reading distance depends on tag type and orientation.  
\*\* Human Interface Device

## ORDER CODES

Versions	Order Codes
Desktop Reader EVO UHF	R-DT-EVO-UHF
Desktop Reader EVO UHF HID	R-DT-EVO-UHF-HID

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