

# DLR-DK001



## RFID UHF DESKTOP READER

The DLR-DK001 desktop reader is a multi-regional UHF RFID reader with an integrated antenna for short to medium range applications.

The reader is powered and controlled directly by a USB cable, thus allowing the module to read EPC Class 1 Gen 2 UHF RFID tags in an easy desktop environment.

Because of its low profile (1.5 cm / 0.6 in) and its size (approximately an A4 page), the DLR-DK001 reader is the perfect choice for various applications such as Point of Sale, Document Tracking, Tag Programming Stations and Access Control. The module can also be used as a building block for smart shelves and smart displays.

## GLOBAL COMPLIANCE

Being compliant with both European and U.S. regulatory environments, the DLR-DK001 reader allows installations in various countries globally as needed by retailers, warehouses and other global organizations.

## FEATURES

- EPC Class 1 Gen 2 and ISO18000-6C Compliant
- Multi-Regional Support
- USB power and communication
- Integrated circular polarized antenna
- Low profile

## INDUSTRY - APPLICATION

- Point-of-sales
- Documents tracking
- Access control
- Tag programming stations
- Inventory management



## TECHNICAL SPECIFICATIONS

## CORDLESS COMMUNICATIONS

<b>Frequency Range</b>	902-928 MHz (FCC part 15) 865.600 - 867.600 MHz (ETSI EN 302 208)
<b>Number of channels</b>	4 channels (compliant to ETSI EN 302 208) 50 hopping channels (compliant to FCC part 15.247) All subsets of FCC band are supported

## RFID DECODING CAPABILITY

<b>Standards supported</b>	EPC Class 1 Gen 2 and ISO 18000-6C Compliant
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## ELECTRICAL

<b>RF power</b>	Programmable in 15 levels (1 dB step) from 12 dBm ERP to 26 dBm ERP (from 16 mW ERP to 400 mW ERP)
<b>DC power</b>	5 VDC bus powered (USB); Max 400 mA

## ENVIRONMENTAL

<b>ESD protection</b>	16 kV
<b>Temperature</b>	Operating: 0 to 50 °C / 32 to 122 °F Storage: -20 to 60 °C / -4 to 140 °F

## INTERFACES

<b>User interface</b>	Green LED: Power Blinking red LED: Tag detection Blinking yellow LED: USB communication activity Buzzer: user programmable event signaling
<b>Connectivity</b>	USB Type A plug connector; Bus powered USB 2.0 device; Must be connected to High-power Port (500 mA @ VBUS) - It appears as USB serial port; Virtual Com Port (VCP) drivers for Windows XP/Vista/Seven (7), Windows CE 4.2, Linux 2.40 and greater; Baudrate: 115200; Databits: 8 Stopbits: 1; Parity: none Flow control: none

## PHYSICAL CHARACTERISTICS

<b>Dimensions</b>	Reader: 9.9 x 5.4 x 2.0 cm <sup>3</sup> / 3.9 x 2.1 x 0.8 in <sup>3</sup>
<b>Weight</b>	57.0 g / 2.0 oz
<b>Length of USB cable</b>	1.5 m / 4.9 ft
<b>Antenna</b>	1.5 m / 4.9 ft

## READING PERFORMANCE

*Depends on the UHF RFID TAG*

## READING RANGES

<b>Reading range</b>	Typical Depth of Field: Up to 90.0 cm / 35.4 in
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## SAFETY &amp; REGULATORY

<b>Standard compliance</b>	EPC C1 G2/ISO 18000-6C
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## UTILITIES

<b>DL RFID software tool</b>	RFID configurations tools are available for download
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## WARRANTY

<b>Warranty</b>	1-Year Factory Warranty
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