

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



DLR-DK001

TECHNICAL SPECIFICATIONS

CORDLESS COMMUNICATIONS

Frequency Range	902-928 MHz (FCC part 15) 865.600 - 867.600 MHz (ETSI EN 302 208)
Number of channels	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

Standards supported	EPC Class 1 Gen 2 and ISO 18000-6C Compliant
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ELECTRICAL

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

ENVIRONMENTAL

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

INTERFACES

User interface	Green LED: Power Blinking red LED: Tag detection Blinking yellow LED: USB communication activity Buzzer: user programmable event signaling
Connectivity	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

Dimensions	Reader: 9.9 x 5.4 x 2.0 cm3 / 3.9 x 2.1 x 0.8 in3
Weight	57.0 g / 2.0 oz
Length of USB cable	1.5 m / 4.9 ft
Antenna	1.5 m / 4.9 ft

READING PERFORMANCE

Depends on the UHF RFID TAG

READING RANGES

Reading range	Typical Depth of Field: Up to 90.0 cm / 35.4 in
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SAFETY & REGULATORY

Standard compliance	EPC C1 G2/ISO 18000-6C
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UTILITIES

DL RFID software tool	RFID configurations tools are available for download
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WARRANTY

Warranty	1-Year Factory Warranty
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