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	INDUSTRY-APPLICATIONS
- EPC Class 1 Gen 2 and ISO18000-6C Compliant - Multi-Regional Support - USB power and communication - Integrated circular polarized antenna - Low profile	- Point-of-sales - Documents tracking - Access control - Tag programming stations - Inventory management

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

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	29.7 x 20.5 x 1.5 cm³ / 11.7 x 8.0 x 0.6 in³
WEIGHT	525 g / 18.5 oz
ANTENNA	Integrated circular polarized antenna
LENGTH OF USB CABLE	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

SAFETY & REGULATORY

STANDARD COMPLIANCE	EPC C1 G2/ISO 18000-6C

UTILITIES

DL RFID SOFTWARE TOOL	RFID configurations tools are available for download

WARRANTY

WARRANTY	1-Year Factory Warranty