

DLR-PR001



UHF LONG RANGE PORTAL READER

The DLR-PR001 portal reader has been carefully designed according to customer requests and in-field experience from RFID installations. The result is a UHF long range reader with GPRS and outstanding RFID reading performance, computing power and communication capabilities.

The reader is optimized for portal installations and features full power up to 16 antennas, Gen 2 Dense Reader Mode management and high speed read rates.

NO EXTERNAL PC OR CABLING REQUIRED

Based on an embedded hardware architecture (x86) and a standard Linux Operating System, the DLR-PR001 portal reader eases the development of custom software and solutions. The on-board computing power and connectivity eliminate the need for an external PC and related cabling. This results in deployment and operations cost savings, thus reducing the total cost of ownership of installed devices.

The DLR-PR001 portal reader is best suited for complex AutoID scenarios, where data can be collected and fed directly to the reader from multiple sources such as smart card readers, bar code readers, GPS and other in-field sensors.

USE IN ANY GLOBAL INSTALLATION

The inclusion of an optional integrated GPRS modem, together with its' compact and versatile form factor, allow the DLR-PR001 portal reader to be used in any global installation requiring RFID usage in remote areas. As a result, the DLR-PR001 portal reader allows solution providers to customize the reader to individual applications, thus creating their own specialized devices accordingly.

FEATURES

- EPC Class 1 Gen 2 and ISO 18000-6C compliant
- Multi-Regional Support
- Embedded Intelligence
- Ethernet Port
- USB 2.0 High Speed Host Port
- Internal MicroSD slot
- Integrated GPRS modem (optional)
- Easily deployable and scalable

INDUSTRY - APPLICATION

- Portal applications
- In-store automation (smart shelves, smart displays)
- RFID tunnels
- Factory automation
- Access control systems

DLR-PR001

TECHNICAL SPECIFICATIONS

CORDLESS COMMUNICATIONS

Antenna Connector	4 TNC Reverse Polarity
Frequency Range	EU: 865 - 867 MHz (ETSI EN 302 208) DLR-PR001-EU US: 902-928 MHz (FCC part 15) DLR-PR001-US
RF Power	Up to 32 dBm (~1.6 W) conducted
Wireless Communication	GSM/GPRS (SMA) (optional); Wi-Fi (optional via USB host)

RFID DECODING CAPABILITY

Standards Supported	EPC Class 1 Gen 2 and ISO 18000-6C compliant
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ELECTRICAL

DC Power	9-36 VDC (30 W)
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ENVIRONMENTAL

Particulate and Water Sealing	IP42
Temperature	Operating: -10 to 50 °C / 14 to 122 °F Storage: -20 to 60 °C / -4 to 140 °F

INTERFACES

Host Interface Protocols	EPC Global LLRP RFID host-to-reader protocol; Datalogic host-to-reader protocol
Internal Interfaces	MicroSD slot; SIM card housing (optional)
Connectivity	RS-232 Serial Communication (DB9); USB 2.0 High Speed Host Port; Ethernet 10/100BASE-T (RJ-45)

PHYSICAL CHARACTERISTICS

Dimensions	27.5 x 15.5 x 3.9 cm ³ / 10.8 x 6.1 x 1.5 in ³
Weight	1,300 g / 45.8 oz
Digital I/O	13 GPIO pins, TTL level

READING PERFORMANCE

CPU	Intel Atom E3815 CPU @ 1.46 GHz
Memory	512 MB RAM, 512 MB SSD, 2 GB MicroSD
Operating System	Linux (Debian)
Scripting	Python 2.5 language interpreter; Java Virtual Machine
Receiving Capability	Gen 2 Dense Reader Mode Management; Data rate up to 400 Kbits/second

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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ACCESSORIES

Miscellaneous



AN-DLR-PR002 RFID Antenna for
DLR-PR001



IF-DLR-PR002 Interface Board for I/O