

# UHF Longrange-Reader

## DYN-UHF-LRU1002



**Long Range Reader for identification of UHF transponders (865-928 MHz) in the areas of vehicle access control, logistics, installation on a forklift etc.**



### SPECIAL FEATURES

- Robust metal housing for use in industrial environment
- 2 Watt Output Power
- High Receive Sensitivity
- Read Range up to 8 m
- 4 Antenna ports
- Output of RSSI values
- 16 LEDs for easy diagnostic and analysis of the operating state
- Low price

The UHF Long Range Reader DYN-UHF-LRU1002 can be used in different kinds of applications and is a cost effective alternative to powerful high performance readers. The DYN-UHF-LRU1002 is licensed according to ETSI, FCC and IC and presents itself with its general features as a future trend development. The reader is characterized by the following features:

- High receiver sensitivity cares for an enlarged and at the same time homogeneous tag detection range
- Possible read range up to 8 m
- Support of Transponders according to EPC Clas 1 Gen2 and ISO 18000-6-C
- Reader protection against fault conditions like antenna shortcut, antenna mismatching and electronic discharge
- Robust aluminium die case housing for usage in rough and industrial environments
- Increase of enclosure rating to IP64 due to optional available connector sealing cap for the connector block
- Quick installation due to easy access to interfaces and antenna ports
- 1 Input and 3 outputs suit industrial needs and allow control of external components and signalization of different events
- Antenna Port Indication: Display of active antennas (green), read events (blue) and possible antenna mismatching (red) via 4 separate LEDs
- Various configuration options for software and hardware
- 3 hardware interface ports: Ethernet, RS232 and USB
- Support of EPCglobal Low Level Reader Protocol with special LLRP Library
- Readout of RSSI data for localization of identified transponders
- High Read Rate for fast and reliable identification of transponders in Dense Reader Mode

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## DYN-UHF-LRU1002



<b>Housing</b>	Aluminum, powder coated
<b>Dimensions, Weight</b>	260 x 157 x 65 mm, 1.800 g
<b>Protection Class</b>	IP 53, IP 64 (with protection cap)
<b>Power Supply</b>	24 V DC $\pm$ 10%
<b>Power Consumption</b>	max. 18 VA
<b>Output Power</b>	100 mW to max. 2 W configurable in steps of 100 mW, Tolerance $\pm$ 3 dB
<b>Antenna Connector</b>	4 x SMA-Female (50 Ohm); integrated Multiplexer
<b>RF-Diagnosis</b>	RF-channel monitoring, Antenna SWR control, internal overheating control
<b>Outputs</b> - 1 Optocoupler - 1 Relay	Max. 24 V DC / 30 mA Max. 24 V DC / 1 A Switching current, 2 A permanent current
<b>Inputs</b> - 1 Optocoupler	Max. 24 V DC / 20 mA
<b>Interfaces</b>	RS232, Ethernet, USB, Wiegand (Scan Mode Interface)
<b>Protocol Modes</b>	ISO Host Mode, Scan Mode (HID), Notification Mode, Buffered Read Mode
<b>Supported Transponder Types</b>	EPC Class 1 Gen2, ISO 18000-6-C (Upgrade Code)
<b>Signaler</b>	16 LEDs for diagnosis of reader operation and antenna status
<b>Temperature</b> - Operation - Storage	-25°C bis 55°C -25°C bis 85°C
<b>Applicable Standards</b> - Radio Regulation:  - EMC: - Safety:	Europe: EN 302 208, USA: FCC 47 CFR Part 15, Canada: IC RSS-GEN, RSS-210 EN 301 489 Low Voltage: EN60950 Human Exposure: EN 50364