

UHF Longrange-Reader

DYN-UHF-LRU3000/3500



Multi-protocol Long Range Reader for identification of UHF transponders (865-928 MHz) in the areas of trade, industry, logistics etc

SPECIAL FEATURES

- Robust metal housing for use in industrial environment
- Read Range up to 16 m (53 ft)
- Identification of up to 330 Tags / Second in Dense Reader Mode
- 4 Watt Output Power (only LRU3500)
- Power over Ethernet (only LRU3500)
- USB-Port for WLAN-Stick or external Memory Stick
- 5 Inputs and 5 Outputs suit industrial needs
- Linux Operating System



Description:

The UHF Long Range Reader DYN-UHF-LRU3000 and DYN-UHF-LRU3500 are the most powerful readers. The Reader DYN-UHF-LRU3000 and DYN-UHF-LRU3500 are licensed according to ETSI, FCC and IC and are characterized by the following features:

- High receiver sensitivity cares for an enlarged and at the same time homogeneous tag detection range
- Support of Transponders according to EPC Class1 Gen2 and ISO 18000-6-C (ISO 18000-6-B possible on demand)
- Reader protection against fault conditions like antenna shortcut, antenna mismatching and electrostatic discharge
- Robust aluminum die case housing for usage in rough and industrial environments
- Increase of enclosure rating to IP 64 due to optional available connector sealing cap for the connector block
- Quick installation due to easy access to interfaces and antenna ports
- Antenna Port Indication: Display of active antennas (green), read events (blue) and possible antenna mismatching (red) via 4 separate LED's
- Full support for the UHF Multiplexer DYN-ANT.UMUX to be used in antenna systems with a maximum number of 2.048 antennas
- Various configuration options for software and hardware
- ACC (Application Connectivity Controller) with Linux operation system for installation of application software directly on the reader platform
- hardware interface ports: Ethernet, RS232, RS485, USB and an USB-Host for WLAN dongle or memory stick
- Readout of RSSI data for localization of identified transponders
- High Read Rate for fast and reliable identification of large transponder populations in Dense Reader Mode

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DYN-UHF-LRU3000/3500



Housing	Aluminum, powder coated
Dimensions, Weight	260 x 157 x 65 mm, 2000 g
Protection Class	IP 53, IP 64 (with protection cap)
Power Supply	24 V DC \pm 5% or Power over Ethernet (POE) only DYN-UHF-LRU 3500
Power Consumption	max. 2 A
Output Power	DYN-UHF-LRU 3000: 300mW to max. 2W DYN-UHF-LRU 3500: 300mW to max. 4W 300mW to max. 1W PoE
Antenna Connector	4 x SMA-Female (50 Ohm); integrated Multiplexer
RF-Diagnosis	RF-channel monitoring; Antenna SWR-control; Internal overheating control
Outputs - 2 Optocoupler - 3 Relays	24 V DC / 30 mA 24 V DC / 1 A
Inputs - 5 Optocoupler	max. 24 V DC / 20 mA
Interfaces	RS232, RS485, Ethernet, USB, USB-Port für WLAN Stick or external Memory Stick
Protocol Modes	ISO Host Mode; Scan Mode; Buffered Read Mode; Notification Mode
Operating System	Linux (64 MB RAM, 256 MB FLASH)
Supported Transponder Types	EPC Gen2; optional EM 4222 und ISO 18000-6-B / -C,
Signaler	8 LED's for diagnosis of reader operation and antenna status
Temperature - Opration - Storage	-20°C bis 55°C -25°C bis 85°C
Applicable Standards - Radio Regulation: - EMC: - Safety: - Vibration: - Shock:	Europe EN 302 208, USA FCC47 CFR Part 15 EN 301 489 Europe EN 60950 EN 60068-2-6; 10 Hz to 150 Hz: 0,075 mm / 1g EN 60068-2-27; Acceleration: 30g