

ID LRU500i

UHF Compact Reader

- UHF Long Range Reader with integrated antenna
- Circular-polarized antenna for any transponder orientation
- Antenna port for additional external antenna
- Up to 8 m read range for Automatic Vehicle Identification (AVI)
- Robust and compact housing for outdoor use (IP65)
- Integrated signal light (red/green)
- Secure Key Storage for application keys
- Fast and easy mounting and installation



Top Performance

The Compact Reader is ideal for vehicle identification and parking access control applications in airports, universities, gated communities and others.

This small vehicle access control reader is installed next to the barrier, gate or bollard, allowing vehicles to conveniently enter the parking area without the need of stopping at the entry.



UHF Compact Reader with integrated antenna and signal light

Small and powerful UHF RAIN RFID Long Range Reader for Automatic Vehicle Identification (AVI).

| Product Details | | ID LRU500i | |
|---|--|--|--|
| Mechanical Data | | | |
| Housing | Plastic (ASA-PC), Aluminium | Features Supported transponder types | RAIN RFID |
| Dimensions | 290 mm x 290 mm x 100 mm (11.4 x 11.4 x 3.9 inch) | | EPC Class1 Gen2 |
| Weight | 2.800 g | | EPC Class1 Gen2 V2 |
| Mounting | VESA FDMI MIS-D 100 mm x 100 mm | Indicator | ISO 18000-6-C |
| Protection Class | IP 65 | | ISO 18000-63 |
| Colour | RAL7015 slate gray, translucent | Other Features | Signal light with red/green/blue 10 LEDs to indicate operation and antenna state |
| Electrical Data | | | Anti-Collision, Output of RSSI values and phase angle, Battery-assisted real-time clock, Supports encrypted transponder communication, Secure Key Storage, Config Cloning function |
| Power Supply | 12...24 V DC ($\pm 10\%$), PoE+ | | |
| Power Consumption | typical 16 W (22 W with PoE+) | Environmental Conditions | |
| Operating Frequency | 865 MHz up to 868 MHz 902 MHz up to 928 MHz | Temperature range | |
| | | - Variant EU: | - Operation |
| - Variant FCC: | - Storage | -25° C up to 85° C | |
| Output Power | 100 mW to max. 1 W, configurable in steps of 100 mW | Humidity | 5% to 95% (non-condensing) |
| Antenna Connector for external antenna | 1x R-TNC-Jack (50 Ω) (Reverse-TNC) | Vibration | EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1g |
| RF-Diagnosis | RF-channel monitoring, Antenna SWR control, Internal Overheating Protection | Shock | EN 60068-2-27 Acceleration: 30 g |
| Outputs | max. 24 V DC / 20 mA max. 24 V DC / 1 A switching current, 2 A permanent current | Applicable Standards | |
| | | Radio Regulation | |
| - 2 Optocoupler | - Europe | EN 302 208 | |
| - 2 Relays | - USA | FCC 47 CFR Part 15 | |
| | - Canada | IC RSS-GEN, RSS-210 | |
| | - India | BIS IS 13252 Part 1 | |
| Inputs | | EMC | EN 301 489 |
| - 2 Optocoupler | max. 24 V DC / 20 mA | Safety | |
| Interfaces | | - Low Voltage | EN 62368 |
| - Variant BD: | Wiegand, RS485, USB (On-The-Go) | - Human Exposure | EN 50364 |
| - Variant PoE: | Ethernet, USB (On-The-Go) | Others | RoHS, WEEE |
| Protocol-Modes | ISO Host Mode, Scan Mode, Notification Mode, Buffered Read Mode | | |

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