

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 10 m read range for Automatic Vehicle Identification (AVI)
- Robust and compact housing for outdoor use (IP67)
- Integrated signal light (red/green)
- Secure Key Storage for application keys
- Fast and easy mounting and installation
- Up to 2 W ERP transmitting power



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		Features	
Housing	Plastic (ASA-PC), Aluminium	Supported transponder types	RAIN RFID EPC Class1 Gen2 EPC Class1 Gen2 V2 ISO 18000-6-C ISO 18000-63
Dimensions	290 mm x 290 mm x 100 mm (11.4 x 11.4 x 3.9 inch)	Indicator	Signal light with red/green/blue 10 LEDs to indicate operation and antenna state
Weight	2.800 g	Network Services	TCP/IP, DHCP
Mounting	VESA FDMI MIS-D 100 mm x 100 mm	Other Features	Anti-Collision, Output of RSSI values and phase angle, Battery-assisted real-time clock, Supports encrypted transponder communication, Secure Key Storage, Config Cloning function
Protection Class	IP 67	Environmental Conditions	
Colour	Anthracite, translucent	Temperature range	- Operation: -25° C up to 55° C - Storage: -25° C up to 85° C
Electrical Data		Humidity	5% to 95% (non-condensing)
Power Supply	12...24 V DC ($\pm 10\%$), PoE+	Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1g
Power Consumption	typical 16 W (22 W with PoE+)	Shock	EN 60068-2-27 Acceleration: 30 g
Operating Frequency		Applicable Standards	
- Variant EU:	865 MHz up to 868 MHz	Radio Regulation	- Europe: EN 302 208 - USA: FCC 47 CFR Part 15 - Canada: IC RSS-GEN, RSS-210 - India: BIS IS 13252 Part 1
- Variant FCC:	902 MHz up to 928 MHz	EMC	EN 301 489
Output Power		Safety	- Low Voltage: EN 62368 - Human Exposure: EN 50364
- Radiated (int. antenna)	max. 2 W ERP	Others	RoHS, WEEE
- Conducted (ext. antenna)	max. 1 W, configurable in steps of 100 mW		
Antenna Connector for external antenna	1x R-TNC-Jack (50 Ω) (Reverse-TNC)		
RF-Diagnosis	RF-channel monitoring, Antenna SWR control, Internal Overheating Protection		
Outputs			
- 2 Optocoupler*	max. 24 V DC / 20 mA		
- 2 Relays*	max. 24 V DC / 1 A switching current, 2 A permanent current		
Inputs			
- 2 Optocoupler	max. 24 V DC / 20 mA		
Interfaces			
- Variant BD:	Wiegand, RS485, USB (On-The-Go)		
- Variant PoE:	Ethernet, USB (On-The-Go)		
Protocol-Modes	ISO Host Mode, Scan Mode, Notification Mode, Buffered Read Mode		

* Only applies to variant PoE.

Variant BD offers no optocoupler output and only one relay output.

Stand of information: December 2019. The information in this document is subject to change without notice and shall not be construed as a commitment. All brand names, trademarks or logos are property of their respective owners.