

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

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