

ID MAX.U500i

UHF Vehicle Access Control Reader

- Combination of UHF Long Range Reader with integrated antenna and Access Controller
- Management of nearly 9.000 vehicles
- Simultaneous monitoring of up to 2 lanes with read ranges of up to 8 m
- Non-volatile event memory, buffered real time clock and Teach-in-mode
- Anti Passback
- Integrated signal light (red/green)
- Secure Key Storage (Secure Element)
- Fast and easy mounting and installation
- PoE and USB interface



Top Performance

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

The 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.

ID MAX.U500i is a compact UHF Vehicle Access Control Reader that combines a UHF Long Range Reader with integrated antenna, a signal light and an access controller in one device. The cabinet approach of this fail-safe solution ensures ease of installation and maintenance. Place of use is everywhere where vehicles should be granted permanent access to employee parking lots, driveways to companies, authorities or other closed facilities (Perimeter Protection).

For identification of a vehicle in connection with the ID MAX.U500i passive, maintenance-free UHF transponders are used, which can be stuck behind the windscreen of the vehicle. ID MAX.U500i has a secure key store with full support of transponders with encryption techniques according to EPC Class 1 Gen 2 V2 specification like NXP UCODE DNA to provide maximum security of your application. This allows a secure authentication of detected transponders and prohibits access of transponders with cloned serial numbers.

With ID MAX.U500i nearly 9.000 access permissions can be managed and approx. 3.000 access control events can be stored. Each user can be assigned to additional temporal access parameters. For this, there are 15 user-definable time zones available. Holidays and vacation days can be included, easily.

To monitor multiple lanes or the simultaneous checking of entry and exit, there are one antenna port and two digital outputs available, alternatively two relays as signal transmitter for barrier- or gate control units.

Programming & Administration

Using the free software myAXXESS Manager, user data and access parameters can be easily administrated on a PC and transferred to ID MAX.U500i by using a temporary network connection. After the transfer of user data, the reader can run offline as a stand-alone device.

With the help of a USB stick, the event buffer as well as the entire configuration including the access authorization can be read out on the ID MAX.U500i. The simple "configuration cloning" allows this configuration to be conveniently copied to other devices by the same route.

The "Teach-In Mode" is used to teach the transponders to be accessed without the use of the software. If the reader is in this mode, all read transponders are automatically transferred to the access database.

Loop detectors and motion detectors as useful accessories

Loop detectors and motion detectors as pulse for starting the identification process do not only ensure an energy efficient operation of ID MAX.U500i. They also guarantee that always the right barrier or door is opened when several lanes exist. For this ID MAX.U500i offers a digital input.

Suitable loop detectors and motion detectors are available from FEIG ELECTRONIC.



Perimeter Protection:
Fast and safe access to industrial plants etc.



Parking Management:
Comfortable access without waiting

Stand of informationen: June 2019.

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UHF Vehicle Access Control Reader with integrated antenna and signal light

Small and powerful UHF RAIN RFID Long Range Reader with integrated Access Controller for automatic vehicle identification (AVI).

Product details		ID MAX.U500i	
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	Other Features	Battery-assisted real-time clock, Supports encrypted transponder communication, Secure Key Storage, Config Cloning function
Protection Class	IP 65	Environmental Conditions	
Colour	Anthracite, translucent	Temperature range	-25° C up to 55° C -25° C up to 85° C
Electrical Data			
Power Supply	12...24 V DC ($\pm 10\%$), PoE+	- Operation	-25° C up to 55° C
Power Consumption	typical 22 W	- Storage	-25° C up to 85° C
Operating Frequency	865 MHz up to 868 MHz	Humidity	5% to 95% (non-condensing)
- Variant EU:	902 MHz up to 928 MHz	Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1g
- Variant FCC:		Shock	EN 60068-2-27 Acceleration: 30 g
Output Power	100 mW to max. 1 W, configurable in steps of 100 mW	Applicable Standards	
Antenna Connector for external antenna	1x R-TNC-Jack (50 Ω) (Reverse-TNC)	Radio Regulation	EN 302 208 FCC 47 CFR Part 15 IC RSS-GEN, RSS-210 BIS IS 13252 Part 1
RF-Diagnosis	RF-channel monitoring, Antenna SWR control, Internal Overheating Protection	- Europe	
Outputs		- USA	
- 2 Optocoupler	max. 24 V DC / 20 mA	- Canada	
- 2 Relays	max. 24 V DC / 1 A switching current, 2 A permanent current	- India	
Inputs		EMC	EN 301 489
- 2 Optocoupler	max. 24 V DC / 20 mA	Safety	
Interfaces	Ethernet, USB (On-The-Go)	- Low Voltage	EN 62368
		- Human Exposure	EN 50364
		Others	RoHS, WEEE

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