

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 userdefinable 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.

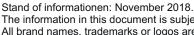
Suitable loop detectors and motion detectors are available from FEIG ELECTRONIC.

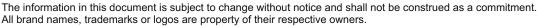


Perimeter Protection: Fast and safe access to industrial plants etc.



Parking Management: Comfortable access without waiting











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	Plactic (ASA DC) Aluminium	Features Supported transponder	RAIN RFID
Housing Dimensions	Plastic (ASA-PC), Aluminium 290 mm x 290 mm x 100 mm (11.4 x 11.4 x 3.9 inch)	types	EPC Class1 Gen2 EPC Class1 Gen2 V2 ISO 18000-6-C
Weight Mounting	2.800 g VESA FDMI MIS-D 100 mm x 100 mm	Indicator	Signal light with red/green/blue 10 LEDs to indicate operation and antenna state
Protection Class Colour Electrical Data	IP 65 black, translucent	Other Features	Battery-assisted real-time clock, Supports encrypted transponder communikation, Secure Key Storage, Config Cloning function
Power Supply Power Consumption Operating Frequency - Variant EU:	1224 V DC (<u>+</u> 10%), PoE+ typical 22 W 865 MHz up to 868 MHz	Environmental Condition Temperature range - Operation - Storage	-25° C up to 55° C -25° C up to 85° C
- Variant EC: - Variant FCC: Output Power	902 MHz up to 928 MHz 100 mW to max. 1 W, configurable in steps of 100 mW	Humidity Vibration	5% to 95% (non-condensing) EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1g
Antenna Connector for external antenna	1x R-TNC-Jack (50 Ω) (Reverse-TNC)	Shock	EN 60068-2-27 Acceleration: 30 g
RF-Diagnosis Outputs	RF-channel monitoring, Antenna SWR control, Internal Overheating Protection	Applicable Standards Radio Regulation - Europe - USA - Canada	EN 302 208 FCC 47 CFR Part 15 IC RSS-GEN, RSS-210
- 2 Optocoupler - 2 Relays	max. 24 V DC / 20 mA max. 24 V DC / 1 A switching current, 2 A permanent current	- India EMC	BIS IS 13252 Part 1 EN 301 489
Inputs - 2 Optocoupler Interfaces	max. 24 V DC / 20 mA Ethernet, USB (On-The-Go)	Safety - Low Voltage - Human Exposure	EN 62368 EN 50364
		Others	RoHS, WEEE



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