FEIG ELECTRONIC

ID MAX.U500i

UHF Vehicle Access Control Reader

- Combination of UHF Long Range Reader with integrated antenna and Access Controller
- Management of more than 4.000 access permissions
- Simultaneous monitoring of up to 2 lanes with read ranges of up to 10 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

PART OF

myAXXESS

MAKE ACCESS CONTROL EASY

Access control systems on buildings and parking areas should be as uncomplicated as possible.
myAXXESS is the secure, powerful and economic solution for small and medium-sized projects.
Both in a stand-alone systems and integrated into existing access solutions.
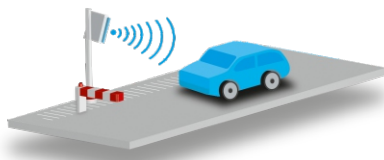As a RFID specialist, FEIG ELECTRONIC offers systems from a single source, consisting of:

- RFID hardware for short-range solutions (HF)
- RFID hardware for long-range solutions (UHF)
- Software myAXXESS Manager for administration of access authorizations
- Transponders for granting authorizations (HF chipcards and UHF wind shield transponders)

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. Supporting encryption techniques according to EPC Class 1 Gen 2 V2 specification like NXP UCODE DNA allows a secure authentication of detected transponders and prohibits access of transponders with cloned serial numbers.

With ID MAX.U500i more than 4.000 access permissions can be managed and up to 3.000 access control events can be stored. Each user can be assigned to additional temporal restrictions. 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 software myAXXESS Manager, user data and authorizations can be easily administrated and transferred to ID MAX.U500i by using a temporary connection. After this synchronization, 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

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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
Dimensions	290 mm x 290 mm x 100 mm (11.4 x 11.4 x 3.9 inch)
Weight	2.800 g
Mounting	VESA FDMI MIS-D 100 mm x 100 mm
Protection Class	IP67
Colour	Anthracite, translucent

Electrical Data

Power Supply	12...24 V DC ($\pm$10%), PoE+
Power Consumption	typical 22 W
Operating Frequency - Variant EU: - Variant FCC:	865 MHz up to 868 MHz 902 MHz up to 928 MHz
Output Power - Radiated (int. antenna) - Conducted (ext. ant.)	max. 2 W ERP max. 1 W, configurable in steps of 100mW
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 - 2 Relays	max. 24 V DC / 20 mA max. 24 V DC / 1 A switching current, 2 A permanent current
Inputs - 2 Optocoupler	max. 24 V DC / 20 mA
Interfaces	Ethernet, USB (On-The-Go)

Features

Supported transponder types	RAIN RFID EPC Class1 Gen2 EPC Class1 Gen2 V2 ISO 18000-6-C ISO 18000-63
Indicator	Signal light with red/green/blue 10 LEDs to indicate operation and antenna state
Network Services	TCP/IP, DHCP
Other Features	Battery-assisted real-time clock, Supports encrypted transponder communikation, Secure Key Storage, Config Cloning function

Environmental Conditions

Temperature range - Operation - Storage	-25° C up to 55° C -25° C up to 85° C
Humidity	5% to 95% (non-condensing)
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1g
Shock	EN 60068-2-27 Acceleration: 30 g

Applicable Standards

Radio Regulation - Europe - USA - Canada - India	EN 302 208 FCC 47 CFR Part 15 IC RSS-GEN, RSS-210 BIS IS 13252 Part 1
EMC	EN 301 489
Safety - Low Voltage - Human Exposure	EN 62368 EN 50364
Others	RoHS, WEEE

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