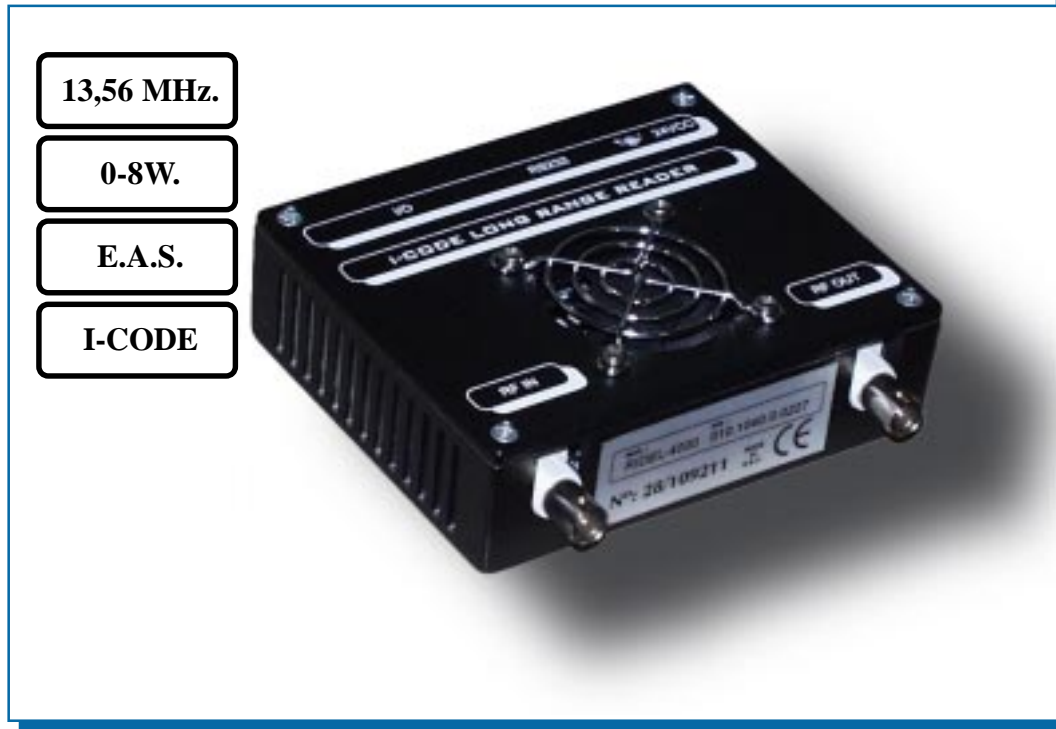


## I-CODE LONG RANGE READER/ENCODER *RIDEL5000*



RFID module for contactless I-CODE smart labels and cards reading and encoding.

It has applications in many different areas, when it is necessary to identify goods, materials or people without physical or visual contact.

Its long reading/encoding range, and its anti-collision feature, makes it possible to simultaneously treat a very big number of labels, reading or encoding one, several or every label in the working field.

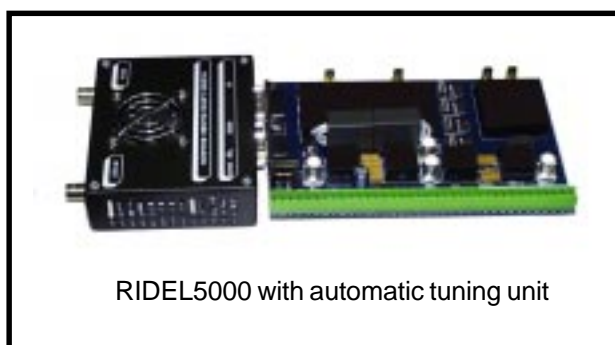
It incorporates anti-theft (EAS) bit activation/deactivation. It has a 4-channel I/O port and RS232 or RS485 communication up to 115200 baud.

All the operational functions of the unit are controlled by an internal microprocessor. All the adjustment and calibration functions are automatically performed by this microprocessor. It is possible to make software updates via the serial interface.

- 13.56MHz working frequency
- I-CODE protocol
- Software adjustable 0-8 W output power
- RS232 or RS485 communication port
- 4-channel I/O port (4 optocoupled inputs and 4 open drain outputs)
- Serial communication control software
- 9,600 to 115,200 Kbaud data rate
- 24Vdc power supply input
- 2 Amp (8W output power) consumption
- -10 a 55°C environment working temperature
- BNC RF connectors
- 9 pin Sub-D Female connector for RS232
- 9 pin Sub-D Male connector for I/O port
- Self-calibrating system.
- Firmware updates via serial port
- Measurement of incident power, reflected power, SWR and temperature.
- Software adjustment of RF output power, modulation index, IF gain, and input filter.
- One or two antennas configurations
- Cooling fan incorporated (temperature activated)
- Small size: 120 x 120 x 38 mm.



Front und upper-front views



RIDEL5000 with automatic tuning unit

## Features

Contactless RF working technology with anti-collision protocol.

Direct application for system integrators with RS232/RS485 communication interface, easy handled by any PC-WINDOWS application or any other platform.

Programmable self-calibration and adjustment. Parameters stored in internal EEPROM.

Software updates from a PC through the RS232 port.

### *RFID LINE*

- Short Range RFID readers/encoders
- Long Range RFID readers/encoders

### *RFID ANTENNAS*

- Different models and configurations for diverse solutions and range.
- Automatic tuning units

### *DEVELOPEMENT SYSTEMS AND ELEMENTS*

- Starter Kit
- Control libraries