

# RADIO FREQUENCY IDENTIFIER

## RFI-A000

### Characteristics

- UHF tags detection up to 3 mt
- Multiple Detection
- Programmable output power
- Serial Interface
- Power supply range 9-36V
- Available in master/slave configuration
- Customizable Serial protocol

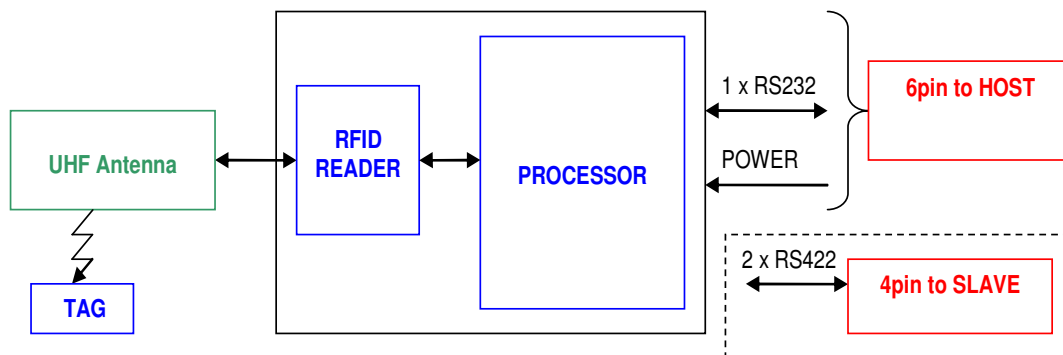


### Applications

- Detection
- Fleet control
- Stock management
- Antitheft, alarm system

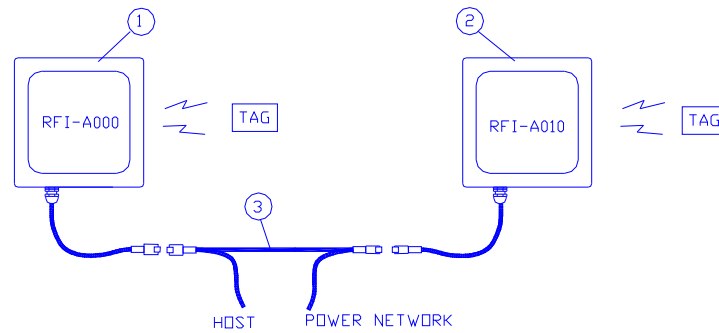
The RFI-A000 equipment allows the detection of UHF tags compliant to EPC Class 1 Gen 2 Standard, at a distance up to 3 mt. The firmware checks the presence of tags inside the antenna measurement range and signal the lock/unlock of each tag.

The communication with the host system is via RS232: other interfaces such as RS232, TTL, 5-20mA are available on request.

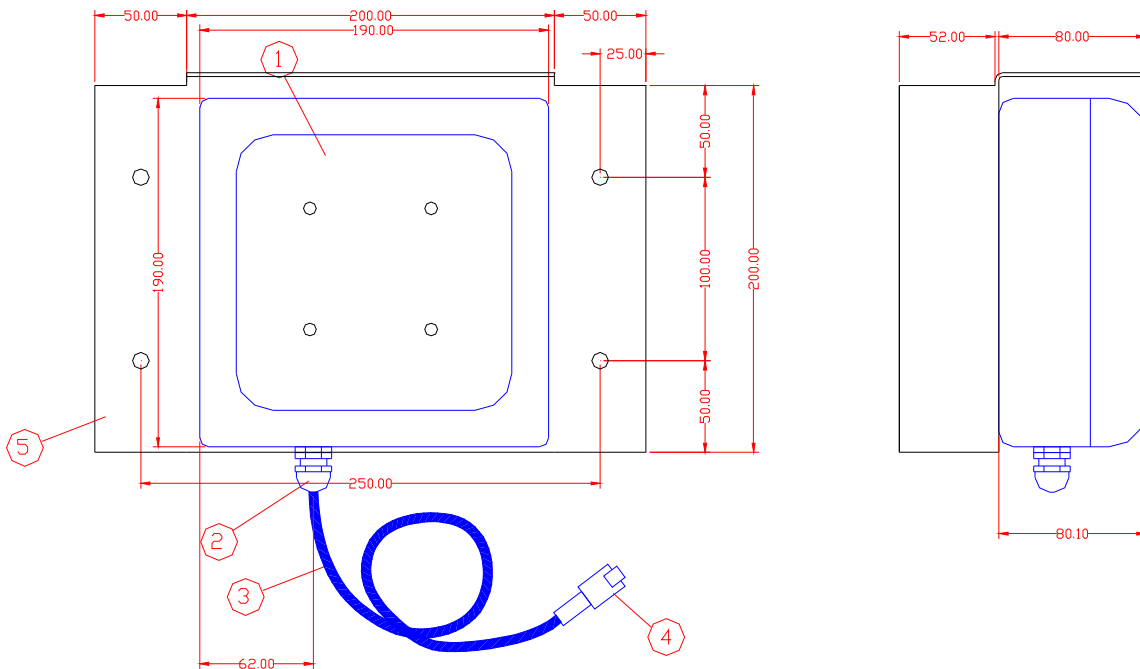


The equipment is available in two versions: single antenna (RFI-A000) or double antenna (RFI-A000+RFI-A010): in the double version the system allows the simultaneous control of two antennas by means of a single serial line (es. trucks with two trailers ).

The first antenna (RFI-A000) is the master and, besides the control of its own tags, communicates with the slave (RFI-A010) and reports to the host the conditions of the whole system.



## Mechanical layout



1. Base Unit
2. Cable gland
3. Cable (length 30cm)
4. Connector to HOST (12 poles)
5. Mounting Plate

### RF Characteristics

Item	Value	Notes
Range	about 3 mt	range can be increased – ask factory for details
Type	UHF	
Frequency range	865 - 870 MHz	range 862...955 MHz available – ask factory for details
Power	10 .. 27 dBm	SW programmable
Antenna Gain	7.5 dBic (min) 9 dBic (max)	
3dB Beam Width	75° X 75°	
Polarization	RHCP	
Supported TAG	EPC Class 1 Gen 2	
Temperature - Operating - Storage	-20 / +55 °C -30 / +85 °C	
Standard Conformity: Europe North America Taiwan Hong Kong Korea Singapore Australia	EN 302 208 FCC Part 15 standards LP002 HKTA 1049 Not. No 2005-50 IDA TS SRD ASD/NZS 4268:2003	

### Mechanical Characteristics

Dimensions	190 x 190 mm x 80.1	
Weigth	1.5Kg	
Protection	IP65	
Salt fog	IEC 68-2-11 Ka 500 hours	
Vibration	IEC 60721-3-4 4M5 Random	
Mechanical Shock	IEC 60721-3-4 4M5	