

## RED.MRU80-M2I-U

### RFID Passive UHF – RedWave by RFID Global



**RedWave Short Range Controller UHF EPC USB in case with 1 integrated Near Field Antenna & 1 external multiplexed antenna.**

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#### Features

- Operating frequency: 860 to 960 MHz (software adjust).
- Standard: UHF - EPC Class 1 Gen 2 - ISO 18000-6C.
- Antennas: 1 x **integrated Near Field Antenna** (for Item Level Tag) & 1 x SMA-female plug for **external UHF antenna**. Internal UHF Multiplexer.
- Host Interfaces: USB 2.0.
- RF power up to 170 mW.
- Power consumption: max. 2 W.
- Dimensions: 110x70x27 mm.
- Reader modes: FEIG ISO Host Mode, Scan Mode, Keyboard Emulation.
- Firmware upgradable (Flash-EEPROM).

#### Benefits

- Small size & Low cost Short Range UHF Controller.
- Read Range: proximity with integrated Antenna & up to 200 cm with external Antenna (depending on tag & antenna gain).
- 2 multiplexed antenna for a wide range of applications.
- Power supply: via USB (5 Volt).
- Same protocol of all FEIG's controllers (HF & UHF)

#### Applications

- Item level tagging.
- DeskTop and Mobile applications.
- Access control.
- Terminals and booking systems.
- Industrial short range applications.

## Technical Data

## RedWave Short Range Controller UHF - RED.MRU80-M2I-U

<b>Housing</b>	ABS-94HB
<b>Colour</b>	Gray with Dark Gray Rubber Sides
<b>Dimensions (LxWxH)</b>	110 x 70 x 27mm.
<b>Protection class</b>	IP 30
<b>Weight</b>	About 120 g (without external antenna)
<b>Power supply</b>	5 VDC (+/- 5 %) via USB-interface
<b>Operating frequency</b>	860 to 960 MHz (software adjustable).
<b>Output Power</b>	From 10 to 170 mW (software adjustable).
<b>Host Communication</b>	USB: 2.0 Full Speed 12 Mb/s
<b>Power consumption</b>	max. 2 Watt
<b>Air-interface Protocols</b>	UHF - EPC Class 1 Gen 2 - ISO 18000-6C.
<b>Protocol Features</b>	Anti-collision (small tag populations) - Dense Reader Mode
<b>Read Performance</b>	25 tags per second
<b>Read Range</b>	Proximity with integrated Near Field UHF Antenna & up to 200 cm with Far Field external UHF Antenna (not included) - Read range and rate are subject to specific environmental conditions.
<b>Antennas - Multiplexed</b>	1 x Internal Near Field UHF Antenna. 1 x External UHF Antennas (not included) SMA-female plugs.
<b>Temperature range</b>	Operation: -10° C up to 55° C - Storage: -20° C up to 85° C
<b>Software</b>	FEIG Reader Protocol
<b>Reader modes</b>	ISO Host Mode, Scan Mode, Keyboard Emulation.
<b>Radio license</b>	Europe EN 302 208 USA FCC 47 CFR Part 15 Canada IC RSS-GEN, RSS-210
<b>Compliance</b>	EMC EN 301 489 Safety EN 60950



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## About us

RFID Global by Softwork is Value Added Distributor (VAD) of RFID Technologies (physical layer), targeting resellers named Channel Partner. The production of its own customized devices thanks to the R&D Dept., the experience gained in such field by a team of project managers and by a network of certified resellers guarantee Softwork RFID leadership all over Italy and in the different application areas.