

## ID RED.ARU60 & ID RED.ARU90

Industrial RFID UHF Antenna Reader RJ45 PoE, RS232, GPIO



### RedWave ARU series UHF

RedWave UHF – antenna integrated reader  
Lan Ethernet (PoE), RS232, GPIO

UHF EPC Class 1 Gen 2 - ISO 18000-6

Models:

RED.ARU60 – gain 6 dBic.

RED.ARU90 – gain 9 dBic.

#### Features

- Operating frequency: Europe 865 - 868 MHz or FCC 902 - 928 MHz
- Standard UHF read/write: UHF EPC Class 1 Gen 2 - ISO 18000-6.
- RFID engine: Impinj E710.
- Sensitivity: < -84dBm. Reading Rate up to 950 tags/sec.
- RF power from 5 to 30 dBm (software adjust step di 1dB).
- Interfaces: Ethernet RJ45 PoE, Serial RS232 e GPIO.
- Circularly polarized UHF Antenna (gain 6 dBci or 9 dBci)
- Dimensions: RED.ARU60 (6 dBci) – 130x130x60 mm.
- Dimensions: RED.ARU90 (9 dBci) – 270x270x77 mm.
- Industrial Class protection IP65. Aluminium & Radome Plastic .
- Pole mounting kit included.
- Reader modes: Host command, Ethernet Auto Mode (UDP).

#### Benefits

- Low cost integrated Antenna Reader UHF RFID.
- Read Range up to 15 mtr. (depending on models, tag & antenna gain).
- Power supply: RJ45 PoE o 9-12 VDC.
- SDK Windows .Net

#### Applications

- UHF Gate easy and quick installation.
- Industrial and process automation for mid range applications.
- Race Sport Timing, Vehicle & People access control.
- Waste Management.
- Item level tagging.

## Technical Data

## RedWave family reader RFID UHF

Model	RED.ARU60	RED.ARU90
<b>Housing - Colour</b>	Housing: Alluminium + radome Plastic (UV rating). Mounting kit Aluminum (for pole). Colour White.	
<b>Environmental specifications</b>	Protection class: Industrial IP 65 - Air cooling Temperature: Operating -25°C to +65 °C. – Storage -30°C to +80 °C.	
<b>Dimensions</b>	130 x 130 x 60 mm. – Weight 620 g.	270 x 270 x 77 mm. – Weight 2230 g.
<b>Power supply</b>	Ethernet PoE o 9-12 VDC	
<b>Frequency &amp; Protocols</b>	Europe 865 MHz to 868 MHz or FCC 902 MHz to 928 MHz. UHF EPC Class 1 Gen 2 - ISO 18000-6	
<b>Communication</b>	Ethernet RJ45 PoE, Serial RS232 e GPIO	
<b>RFID Engine</b>	Based on Impinj E710 chip. Sensitivity < -84dBm. Reading Rate up to 950 tags/sec	
<b>RF Power</b>	1 Watt Max - from 5 to 30 dBm (software adjust step di 1dB).	
<b>Power consumption</b>	800mA +/-5% @ DC 12V Input	
<b>Antennas &amp; Beam width</b>	Right Hand Circularly Polarized (RHCP) Impedance: 50Ω. VSWR: ≤ 1.3. Horizontal/Vertical Angles: 105° x 95°	Right Hand Circularly Polarized (RHCP) Impedance: 50Ω. VSWR: ≤ 1.3. Horizontal/Vertical Angles: 60° x 55°
<b>Read Range</b>	6 dBci gain - Range up to 7 mtr.  (read range and rate are subject to specific environmental conditions)	9 dBci gain - Range up to 15 mtr.
<b>Reader modes</b>	Host command, Lan Ethernet Auto Mode (UDP)	
<b>Protocol Features</b>	Anti-collision (big tag populations)	
<b>RF Feature</b>	RSSI (Received Signal Strength Indicator) supported	
<b>Other</b>	Mounting kit (for pole) included. Includes: Power Supply, SDK & Drivers.	
<b>Software</b>	Windows (SDK.NET), configuration software. Low-level commands available	
<b>Radio license</b>	Europe EN 302 208. USA FCC 47 CFR Part 15.	



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