

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, Serial RS232 e GPIO.
- Circularly polarized UHF Antenna (gain 6 dBci or 9 dBci)
- Dimensions: RED.ARU60 (6 dBi) – 130x130x60 mm.
- Dimensions: RED.ARU90 (9 dBi) – 270x270x77 mm.
- Industrial Class protection IP65. Alluminium & 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 24 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
Housing - Colour	Housing: Alluminium + radome Plastic (UV rating). Mounting kit Aluminum (for pole). Colour White.	
Environmental specifications	Protection class: Industrial IP 65 - Air cooling Temperature: Operating -25°C to +65 °C. – Storage -30°C to +80 °C.	
Dimensions	130 x 130 x 60 mm. – Weight 620 g.	270 x 270 x 77 mm. – Weight 2230 g.
Power supply	9-12 VDC	Ethernet PoE o 9-12 VDC
Frequency & Protocols	Europe 865 MHz to 868 MHz or FCC 902 MHz to 928 MHz. UHF EPC Class 1 Gen 2 - ISO 18000-6	
Communication	Ethernet RJ45, Serial RS232 e GPIO	
RFID Engine	Based on Impinj E710 chip. Sensitivity < -84dBm. Reading Rate up to 950 tags/sec	
RF Power	1 Watt Max - from 5 to 30 dBm (software adjust step di 1dB).	
Power consumption	800mA +/-5% @ DC 12V Input	
Antennas & Beam width	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°
Read Range	6 dBci gain - Range up to 11mtr. (read range and rate are subject to specific environmental conditions)	9 dBci gain - Range up to 24 mtr.
Reader modes	Host command, Lan Ethernet Auto Mode (UDP)	
Protocol Features	Anti-collision (big tag populations)	
RF Feature	RSSI (Received Signal Strength Indicator) supported	
Other	Mounting kit (for pole) included. Includes: Power Supply, SDK & Drivers.	
Software	Windows (SDK.NET), configuration software. Low-level commands available	
Radio license	Europe EN 302 208. USA FCC 47 CFR Part 15.	



Authorized Dealer

About us

RFID Global by Softwork is Value Added Distributor (VAD) of RFID, NFC & BLE Technologies, 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 RFID leadership all over Italy and in the different application areas.