RedWave



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.

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- 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 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 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.



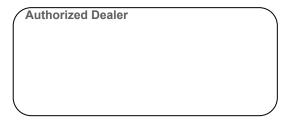


Technical Data

RedWave family reader RFID UHF

Model	RED.ARU60	RED.ARU90
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	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 PoE, 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 7 mtr.	9 dBci gain - Range up to 15 mtr.
	(read range and rate are subject to specific environmental conditions)	
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.	





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