

Basaltix Pro

88 x 30 x 9 mm U8

The RICHRFID Basaltix series tags are housed in a tough, rigid, and protective shell — made of durable industrialgrade plastic — making them suitable for the most aggressive environments, including physical impact,extreme temperatures, moisture, chemicals, and mechanical stress.

These tags include anti-metal variants specifically engineered for direct mounting on metal surfaces. An internal isolation layer counteracts signal interference from metal, resolving signal attenuation and readability issues common with ordinary tags on metal substrates. Combined with high-performance chips and optimized antennas, they achieve extended read ranges and stable performance on metal surfaces.

Available in various configurations to meet diverse application needs, the series offers metal-mount, non-metal, HF (NFC), UHF, and dual-frequency options. Multiple installation methods are supported, including adhesive bonding, self-adhesive backing, screws, rivets, and cable ties. An IP68 ingress protection rating ensures reliable operation in harsh conditions. With a variety of chip types and operating frequencies covering both UHF and HF, these tags are widely used in metal asset management, industrial equipment tracking, warehousing, logistics, and manufacturing, etc.

Highlights & Benefits

- ✓ Preeminent performance based on specific applications
- ✓ Robust and durable for harsh environment
- ✓ Reusable & cost-effective Long-term
- ✓ Various type and installation options
- ✓ Customization:design,printing,encoding,etc,available

Applications

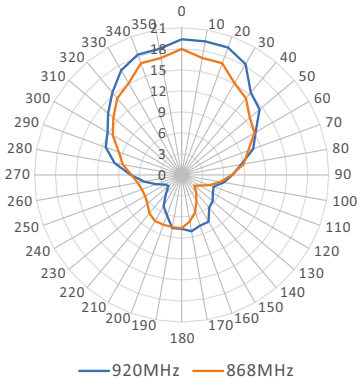
- ✓ Construction & heavy equipment
- ✓ Oil, gas, energy facility
- ✓ Automotive & aerospace fixture
- ✓ Container & storage rack

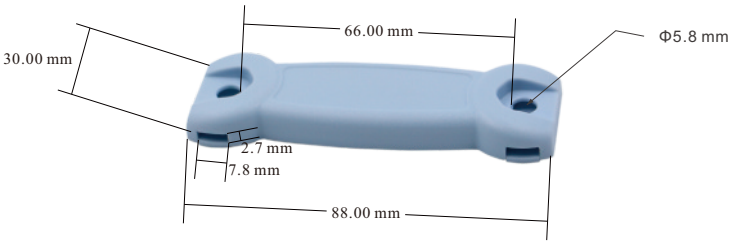


Technical Features

Model	RCO8012
RFID Features	
Air Interface Protocol	EPC Class 1 Gen 2 / ISO 18000-63 Type C
Frequency	860-960 MHz
Chip Type	NXP Ucode 8
Memory	User - N/A; EPC - 128 bits; TID - 96 bits
Data Storage	> 10 years
Re-write	100,000 times
Read Range(2W ERP)	FCC: > 19.3 m(63.3 ft) , on metal ETSI: > 17.8 m(58.4 ft) , on metal
Physical Features	
Dimension	88 x 30 x 9 mm / 3.46 x 1.18 x 0.35 in
Material	Engineering Plastics
Weight	11.6 g
Color	Light Blue
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Survival Temperature	-40°C to 120°C / -40°F to 248°F
Storage Condition	20±5°C, 50±10% RH, Store away from sunlight
IP Rate	IP68, test for 5 hours at 1m deep water
Other Features	
Installation	Adhesive(clean and dry surface), Rivet, Magnet, Screw
Customization	Printing, Encoding, Design, etc.
Package	100 pcs / bag, 10 bags / box

Radiation Pattern





PS: The performance is theoretical values in the lab and the actual effect depends on the specific applications.

RICHRFID

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DISCLAIMER

All specifications are indicative and results may vary. Each user bears full responsibility for making its own determination as to the suitability of RICHRFID products, materials, services, recommendations, or advice for its own particular use.

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