



Pallet AIO Needle

90 x 10 x 1 mm U8



The RAIN UHF RFID Pallet AIO Tag is a cost-effective and versatile solution designed to optimize pallet tracking and inventory management for businesses of all sizes.

Constructed from durable FR-4 material, its robust structure makes it ideal for industrial equipment monitoring, production automation, and the tracking and management of wooden or plastic pallets and containers.

This tag is perfect for large-scale deployments where cost and efficiency are paramount. Whether managing a high throughput warehouse or overseeing a complex logistics network, the RAIN UHF RFID Pallet AIO Tag offers the ideal balance of performance and affordability.

Highlights & Benefits

- ✓ Outstanding performance
- ✓ Durable PCB construction for long term usage
- ✓ Multiple mounting options for installation
- ✓ ETSI(865-868 MHz) and FCC(902-928 MHz) optional
- ✓ Customization-design, printing, encoding available

Applications

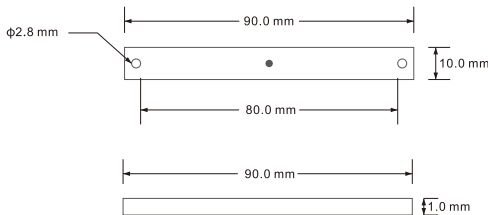
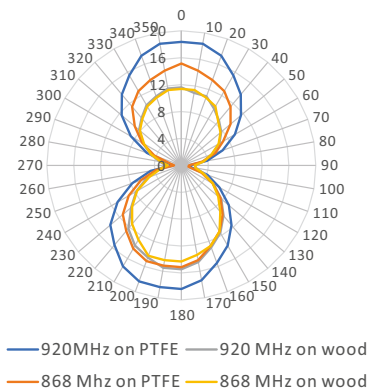
- ✓ Pallet
- ✓ Turnover box
- ✓ Furniture



Technical Features

Model	RCT10003
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: > 18.4 m(60.4 ft) , on PTFE; 11.6 m(38.1 ft), on wood ETSI: > 15.0 m(49.2 ft) , on PTFE; 11.3 m(37.1 ft), on wood
Physical Features	
Dimension	90 x 10 x 1 mm / 3.54 x 0.40 x 0.04 in
Material	FR-4
Weight	1.8 g
Color	Black
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Survival Temperature	-40°C to 150°C / -40°F to 302°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	500 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.



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