

RHINO™ HARD TAGS

AS HT9721 Global



A sleek all-surface UHF RFID hard tag designed for reliable asset identification across a wide range of mounting materials. Featuring optimized antenna design, it delivers consistent performance on metal, plastic, wood, and other common surfaces.

PHYSICAL SPECIFICATION

Tag Material

Engineering Plastic

Tag Size

97 x 21 x 14 mm | 3.8" x 0.82" x 0.55"
Screw mounting hole: dia 5.3mm | 0.2"

Adhesive (default)

High performance acrylic adhesive on metal ground

Delivery Format

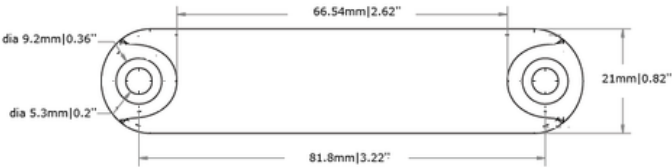
Single

Tags in box

200 pcs per box (100% performance checked)

Weight

12 g



RF SPECIFICATION

Air interface protocol

ISO 18000-6C and EPC Global Gen2v2 complaint | Rain RFID

Operational frequency

Global: 865-928 MHz

IC

NXP UCODE X

Memory configuration

EPC: Configurable 96-208 bits; USER: Configurable: 0-32 bits
TID: 96 bits

Applicable Surface Materials

All Surfaces

Read range (2W ERP)**

	Meter	Feet
On Metal	11	36.08
On Plastic	15	49.21
On Wood	12.5	41.01

PERSONALISATION OPTIONS

Pre-encoding

- Customer specific encoding of EPC memory and User memory

Customised Laser Engraving

- Customer specific artwork including logo & text, numbers, barcodes etc.

ORDER INFORMATION

Part Number

- RF.HT.9721.UX

Packaging

- 200 pcs per box;
5 boxes per carton

** The indicated read range values are measured in our laboratory testing environment, where antennas with optimum directivity are used with maximum allowed operating power. Different surface materials and environments may exhibit different results.

PRODUCT INSTALLATION



AS HT9721 supports multiple attachment methods for different mechanical and environmental requirements.

1. Adhesive Backing (by default)

Ensure the surface is clean, dry, and free of oils or dust. Ideal application temperature: +21°C to +38°C (70°F to 100°F). Apply firm pressure to enhance bond. Installation below 10°C (50°F) is not recommended.

2. Mechanical Fixing – Screws or Rivets

Mechanical attachment is strongly recommended for industrial settings involving vibrations, shock, or extreme temperatures.

Mount using M5 screws or 5 mm pop rivets through pre-molded holes.

Ensure flush contact with the metal surface to avoid air gaps that may degrade read performance.

ENVIRONMENTAL RESISTANCE

Operating Temperature

-40°C to +85°C | -40°F to +185°F

Installation Temperature

+10°C to +38°C | 50°F to +100.4°F

IP Classification

IP68

Chemical resistance

No physical or performance changes in:

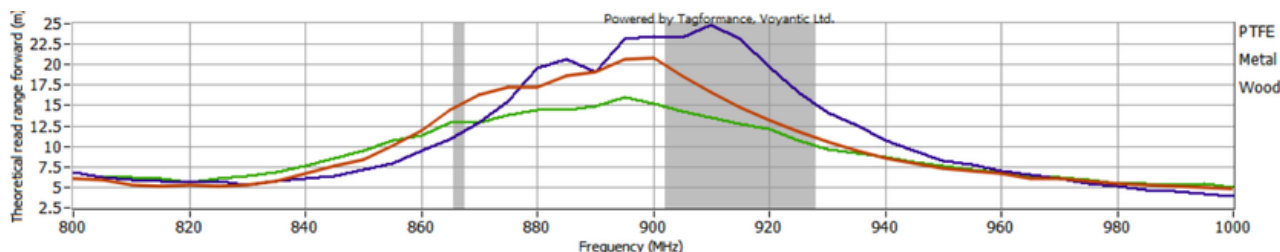
- 168 hour Motor oil exposure
 - 168 hour Salt water (salinity 10%) exposure
 - 168 hour Sulfuric acid (10%, pH 2) exposure
 - 24 hour NaOH (10%, pH 13) exposure
- Acetone should be avoided.

Expected Lifetime

Years in normal operating conditions



READ RANGE GRAPH



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