

# SMART RFID TAG Rhino HT 11025



WITH MAGNETS



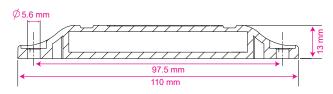
## WITHOUT MAGNETS

RAIN (UHF) RFID hard tag optimized for securing metal assets. Based on a rugged construction, slim form factor, good on-metal functionality and durability. The tag is made to withstand harsh weather, high impact or other challenging application environments and is ideal for Logistics & Supply chain and manufacturing applications.

The tag can be provided with two options, one that can be mounted using two 7 kg magnets embedded in the middle of the tag that are quite strong and resist any slide-off. The other option being a high performance permanent adhesive backing.

PHYSICAL SPECIFICATION			
Tag Material	ABS		
Tag Dimensions	110 x 25 x 13 mm (tolerance ±1mm)   Hole Dia: 5.6 mm 4.33 x 0.98 x 0.51 inch   Hole Dia:0.22 in		
Adhesive (Optional)	High performance permanent adhesive with excellent bonding to a variety of substrates		
Magnet Type (Optional)	Magnets that can withstand a pull force of 7 kg Optional: Magnets that can withstand a pull force of 4 kg		
Weight	32 gms (without magnets)	42 gms (with magnets)	
Delivery Format	Single Pieces		

FRONT



RF SPECIFICATION		
Mode of Operation	Passive	
Device Type	Plastic Hard Tag	
Air Interface Protocol	EPC Gen2/ISO/IEC 18000 6C	
Operational Frequency	Global 860-960 MHz	
IC Type*	Alien Higgs 3	
Memory Configuration	EPC Size 96 Bits, User Memory 512 Bits, 96 bits TID with 64 bits Unique serial number	
Write Cycle Endurance	100,000	
Data Retention	Upto 50 years	
Applicable Surface Materials	Metallic surfaces	
Read Range (In Meters)	ETSI : Upto 11 m without magnets; Upto 8.5 m with magnets FCC : Upto 11 m without magnets; Upto 9 m with magnets	

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ENVIRONMENTAL RESISTANCE		
Operating Temperature	-40°C to +80°C / -40°F to +176°F	
Withstands Exposure To	+80°C / +176°F	
Peak Temperature	+80°C / +176°F	
Adhesive Service Temperature	-40°C to +148°C / -40°F to +298.4°F	
Recommended Application Temperature	+10°C to +38°C / 50°F to +100.4°F	
Water Resistance (IP Rating)	IP68	
Chemical Resistance	No physical or performance changes in: - 168 h Salt water (salinity 10%) exposure - 168 h Motor oil exposure - 12 h NaOH (10%) exposure - 30 min Acetone exposure	
Ideal Storage Condition	1 year in +23°C / 73.4°F , 50% RH	
Expected Lifetime	Years in normal operating conditions	

## **PRODUCT INSTALLATION**



The tag can be attached to the surface using the following fixing methods

## • Adhesive:

The tag is delivered with an optional adhesive tape attached. While mounting the tag ensure clean and dry surface to achieve maximum bond strength.

Ideal application temperature is from  $+10^\circ C$  to  $38^\circ C$  /  $+50^\circ F$  to  $+100.4^\circ F$  and installation beyond this temperature range is not recommended.

Bond strength can be improved by applying pressure firmly while mounting the tag.

## Magnet:

The tag is delivered with two magnets of good strength embedded in the middle of the tag. While mounting the tag, the magnets ensure that the tag is firmly attached to the asset and resists being slid-off.

Having a magnet as the mounting option also provides portability i.e. is the tag can be detached and moved anywhere on the surface of the asset. This also lets you change the orientation of the tag, if required.

## Mechanical Fixing:

Achieved by using a screw or a pop rivet and is a recommended for environments that involve high mechanical stress. During fixing make sure there is no air gap left in between the metal surface and tag.

#### Cable Tie:

Metallic or plastic cable ties can also be used to mount the tag onto the surface.

## **PERSONALIZATION OPTIONS**

## **Pre-encoding**

• Customer specific encoding of EPC

## **Customized Laser Engraving**

• Customer specific layout including logo, text, and numbers.

## **ORDER INFORMATION**

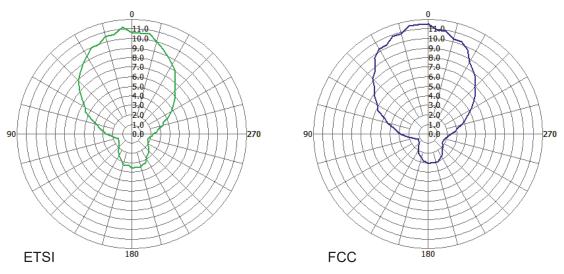
## Part Number

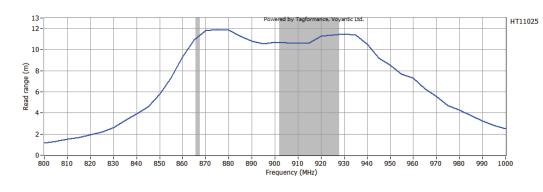
- RF.HT.MOM.11025
- RF.HT.MOM.11025M

## No. of Pieces

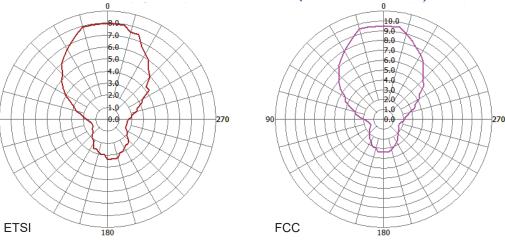
• 50 per box.

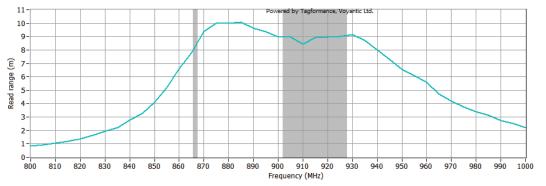
## **RADIATION PATTERN & READ RANGE GRAPH (WITHOUT MAGNETS)**











\* Other IC's available on request

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\*\* 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.



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