

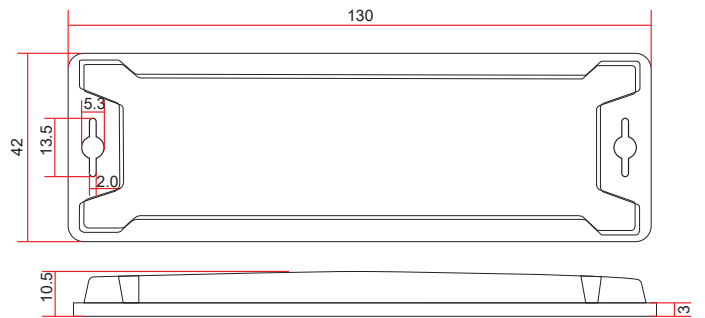


A LONG RANGE HARD TAG with read range of up to 30 meters!

The Rhino HT 13042 RAIN (UHF) tag is IP68-rated, making it suitable for harsh outdoor environments and ideal for industrial and logistical processes requiring high reading long read distances in a demanding environment. It offers exposure to water and contaminants. These tags can be mounted onto the surface using pop rivets, cable ties or high-performance adhesives.

PHYSICAL SPECIFICATION

| | |
|------------------|---|
| Tag Material | PC |
| Tag Dimensions | 130 x 42 x 10.5 mm 5.11 x 1.65 x 0.41 in |
| Mounting Methods | Adhesive, Screw |
| Weight | 40 gms |
| Delivery Format | Single Pieces |



All sizes in mm

RF SPECIFICATION

| | |
|------------------------------|---|
| Mode of Operation | Passive |
| Device Type | Plastic Hard Tag |
| Air Interface Protocol | EPC Class1 Gen2, ISO18000-6C |
| Operational Frequency | ETSI: 865-868MHz FCC: 902-928MHz |
| IC Type | Alien Higgs 3 |
| Memory Configuration | EPC 96bits (Up to 480bits) , USER 512bits, TID64bits |
| Write Cycle Endurance | 100,000 |
| Data Retention | Upto 50 years |
| Applicable Surface Materials | Metallic surfaces |
| Read Range (Fixed Reader) | ETSI : On metal upto 17 m(Fixed Reader: 29dBm), upto 28m(Fixed Reader: 36dBm) FCC : On metal upto 18 m(Fixed Reader: 29dBm), upto 30m(Fixed Reader: 36dBm) |

ENVIRONMENTAL RESISTANCE

| | |
|-------------------------------------|--------------------------------------|
| Operating Temperature | -40°C to +80°C / -40°F to +176°F |
| Withstands Exposure To | -30°C to +80°C / -22°F to +176°F |
| Peak Temperature | +80°C / +176°F |
| Recommended Application Temperature | +10°C to +38°C / 50°F to +100.4°F |
| Water Resistance (IP Rating) | IP68 |
| Ideal Storage Condition | -40°C to +100°C / -40°F to 212°F |
| Expected Lifetime | Years in normal operating conditions |

PRODUCT INSTALLATION



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

- **Mechanical Fixing:**
Achieved by using a screw or a pop rivet and is 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

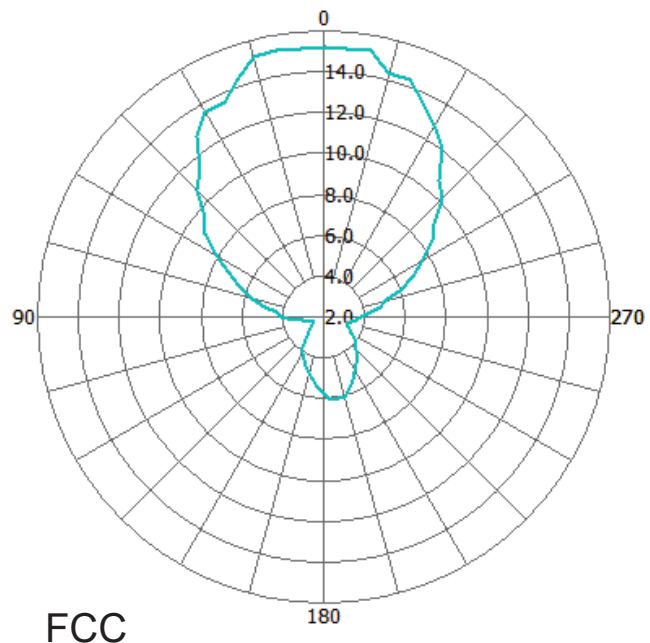
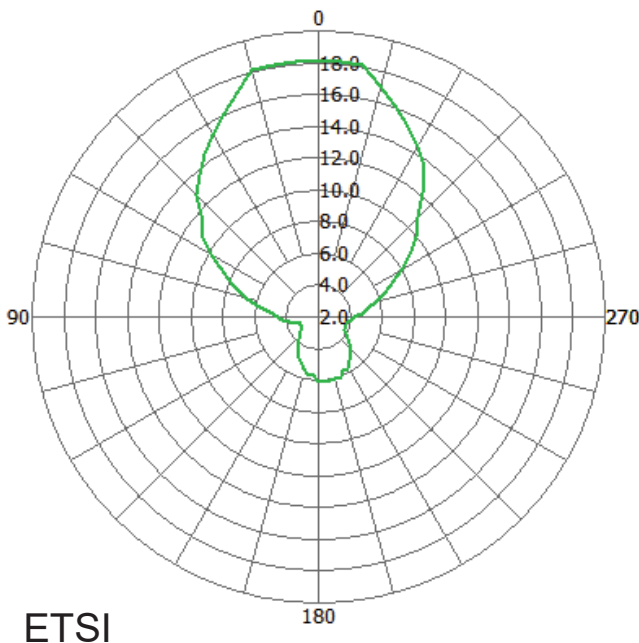
- Customer specific layout including logo, text, and numbers.

ORDER INFORMATION

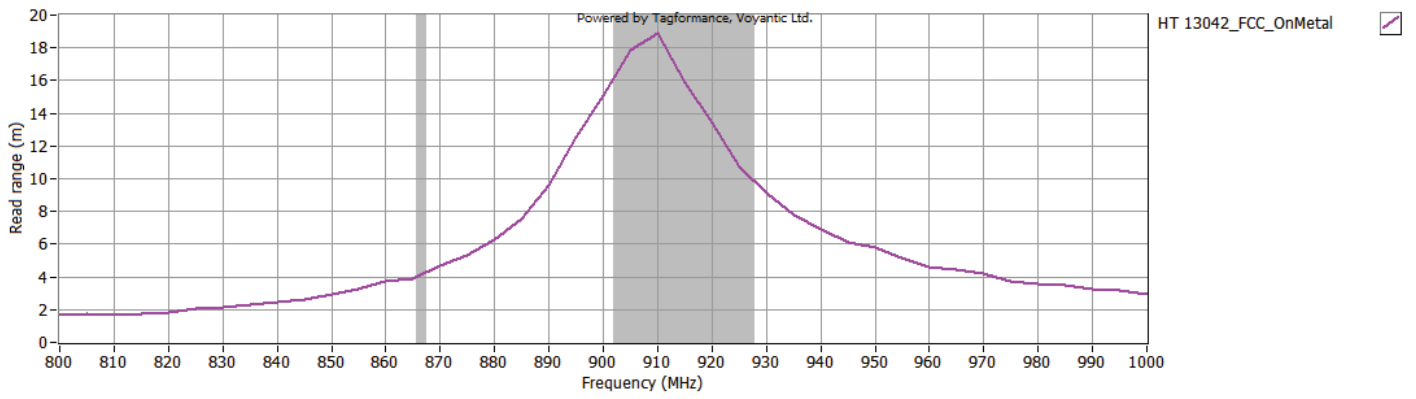
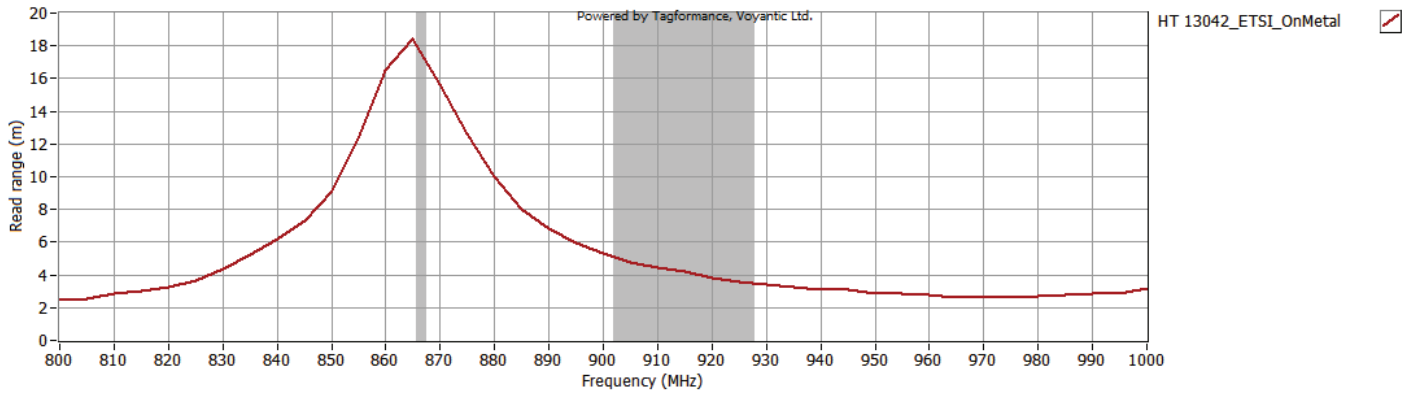
Part Number

- RF.HT.13042.ETSI.H3
- RF.HT.13042.FCC.H3

RADIATION PATTERN (ETSI & FCC)



READ RANGE GRAPH (ETSI & FCC)



** 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.



Version : 180221.01