

HT 12017 has been designed specifically with the objective of securing plastic containers, pallets and other non-metallic assets, especially where the application area on the asset is limited. The slim profile (17mm wide) takes up very little space making it versatile for deployment across different sized plastic assets. It features a very thin form factor so that the tag does not protrude much from the surface. Optimized to perform on plastic surfaces and operating at global frequency ensures an excellent read range.

TYPICAL APPLICATIONS

Non metallic surfaces

- Plastic or wooden RTI's (pallets, crates, bins, containers and alike)
- Hospital beds
- Other non metallic assets

PHYSICAL SPECIFICATION

Tag Material	ABS
Tag Dimensions	120 x 17 x 3 mm 4.72 x 0.67 x 0.12 inch
Adhesive (Optional)	High performance permanent adhesive with excellent bonding to a variety of substrates
Weight	5.38 g
Delivery Format	Single Pieces

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 Higgs3
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	Non-metallic surfaces
Read Range (In Meters)	ETSI : Upto 9 m / 29.52 ft FCC : Upto 11 m / 36.08 ft

ENVIRONMENTAL RESISTANCE

Operating Temperature	-50°C to +85°C / -58°F to +185°F
Withstands Exposure To	-50°C to +85°C / -58°F to +185°F
Peak Temperature	+85°C / +185°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	+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 attached. While mounting the tag ensure clean and dry surface to achieve maximum bond strength.

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

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

- **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

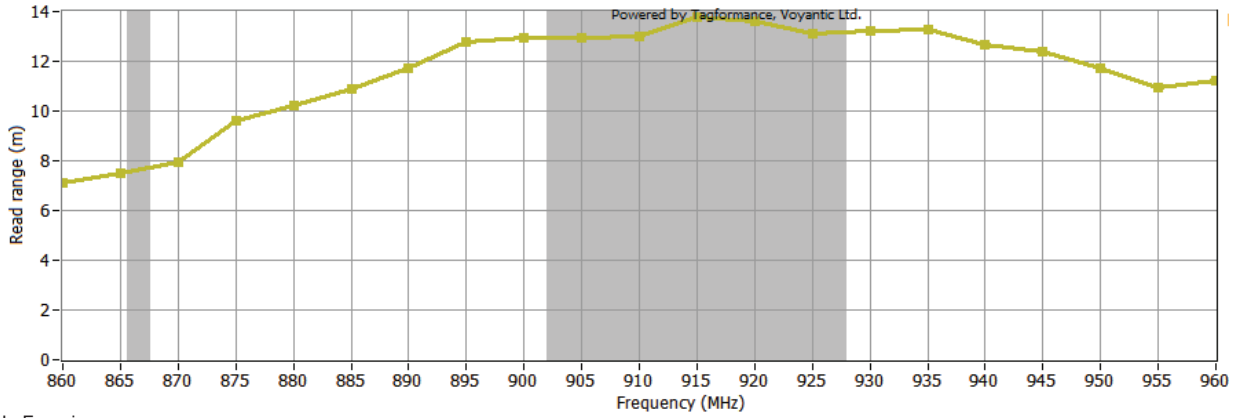
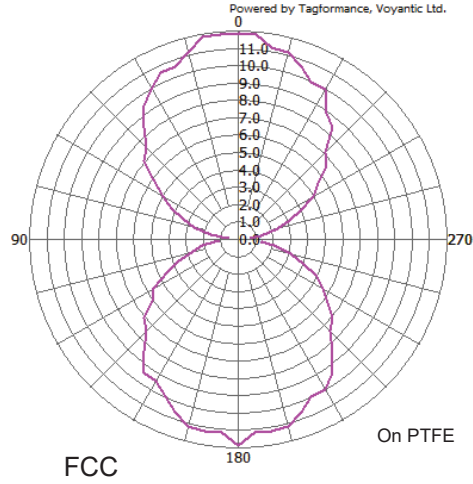
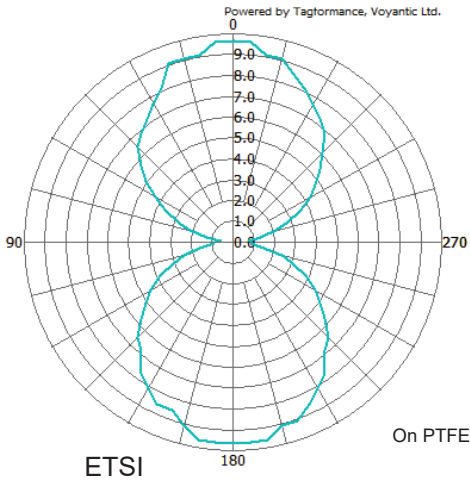
Part Number

- RF.HT.12017.H3

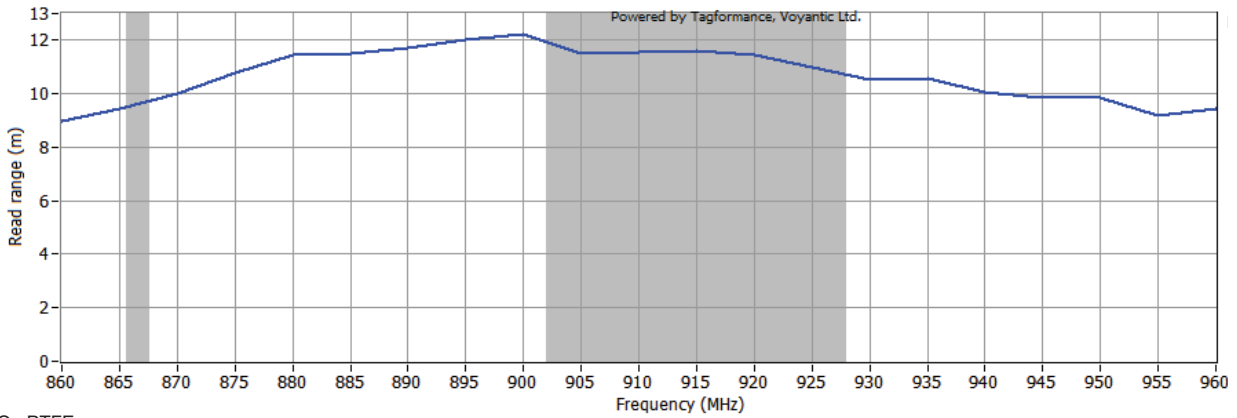
No. of Pieces

- 400 per box.

RADIATION PATTERN & READ RANGE GRAPH (ETSI & FCC)



In Freear



On PTFE

* Other IC's available on request

** 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 : 210420.01