

SMART RFID TAG Rhino HT 186





With very small form factor this On-Metal and PCB based RAIN (UHF) RFID Tag is a perfect solution when application area is limited, especially for tools and other small items like hospital assets. It is also capable of withstanding high temperatures.

PHYSICAL SPECIFICATION		
Tag Material	FR4 (PCB)	
Tag Dimensions	18x6mm, (Hole: D2mmx1), T 3.0mm without IC bump, 4.0mm with IC bump 0.708x0.236in, (Hole: D0.078inx1), T 0.118in without IC bump, 0.157in with IC bump	
Mounting Method	Screw	
Weight	1.2 gms	
Delivery Format	Single Pieces	

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 3 m FCC : On metal upto 4 m	

ENVIRONMENTAL RESISTANCE		
Operating Temperature	-40°C to +100°C / -40°F to +212°F	
Withstands Exposure To	-40°C to +150°C / -40°F to 302°F	
Peak Temperature	+150°C / +302°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 +150°C / -40°F to 302°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 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.

PERSONALIZATION OPTIONS

Pre-encoding

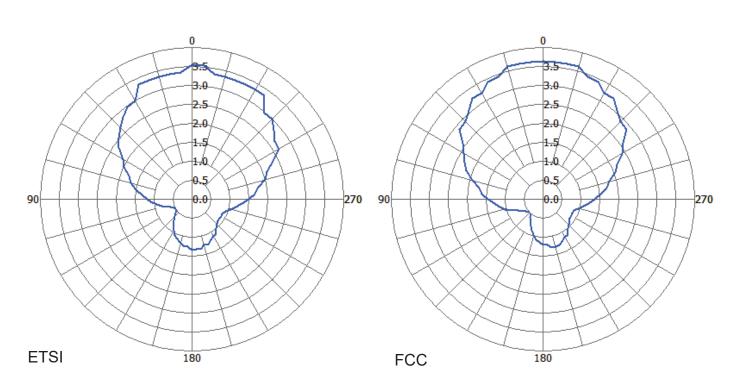
• Customer specific encoding of EPC

ORDER INFORMATION

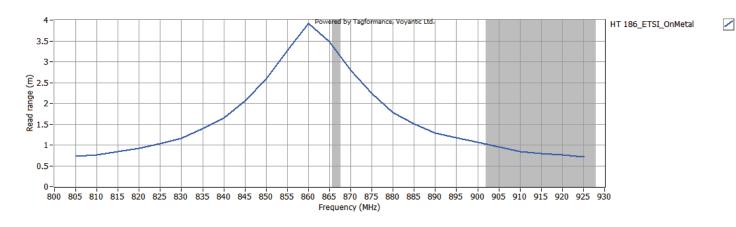
Part Number

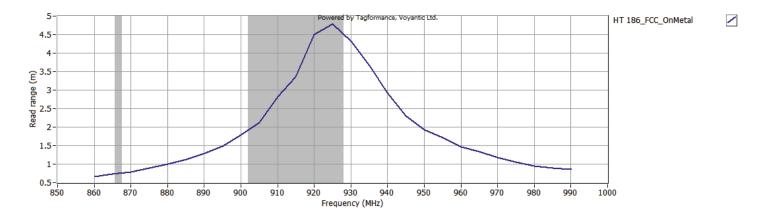
- RF.HT.186.ETSI.H3
- RF.HT.186.FCC.H3

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.