



M-Nano Tag

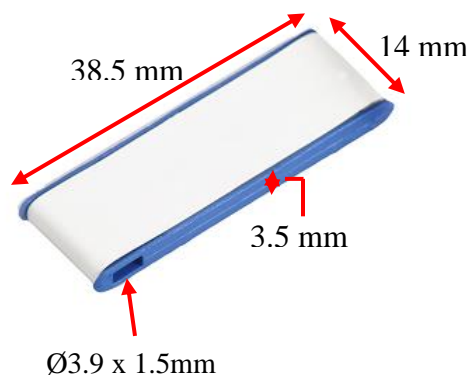
FEATURES

- M-Nano Tag is very small in size & has very good read range, especially when attached to metal.
- The product has been designed to be easily attached by adhesive.
- Can be used with cable ties through its mounting hole.
- Flexible Read/Write Range (reader dependant).

APPLICATIONS

- Used in IT asset tracking applications such as backup tapes, servers, hard drives, and media tapes without any human intervention.
- Inventory control of small tools and manufacturing equipment, servers, and network routers.

Chip Type:	Alien Higgs 9, GS1 Class 1 Gen 2	
	EPC Memory: Up to 496-EPC Bits (nominally 96 bits)	
	User Memory: Up to 688 Bits	
	Data Retention: 50 Years	
	Write Endurance: 200,000 Cycles	
Mechanical:	Dimension	38.5 x 14 x 3.5 mm
	Face Material	Polyester
	Colour	Blue & white
	Weight	2 g
Electrical:	Operating Frequency	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP54	
Thermal:	Storage Temp.	-25°C to +85°C
	Operating Temp.	-25°C to +85°C
Part Number:	319V1	
Options:	Available with:	
	Other IC type and Frequency on request	
	Other colour combination & material	
	Adhesive backing / hanging thread for easy mounting	
	Non-metallic application	



Note: Tolerance applicable are **Length:** $\pm 1\text{mm}$, **Width:** $\pm 0.5\text{mm}$ and **Thickness:** $\pm 0.3\text{mm}$

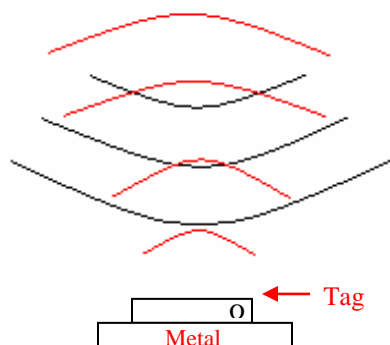
Tag Placement

- ✚ M-Nano is polarized perpendicular to TTF logo.
- ✚ Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- ✚ Ensure that there is no hindrance between the tag and the reader antenna.
- ✚ Reader antenna should be parallel to the length of tag as shown in below figure:

Correct way



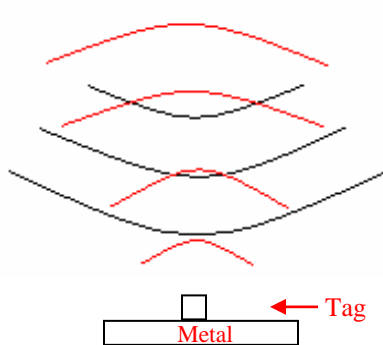
Antenna



Wrong way

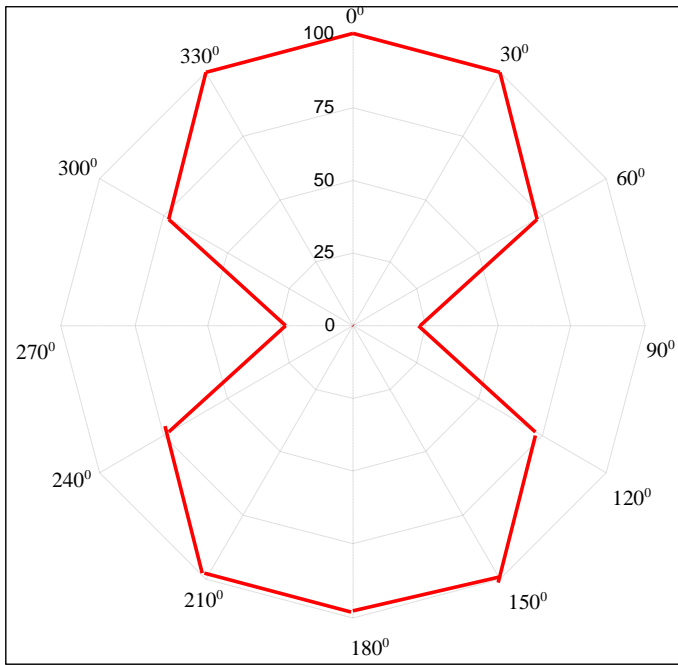


Antenna

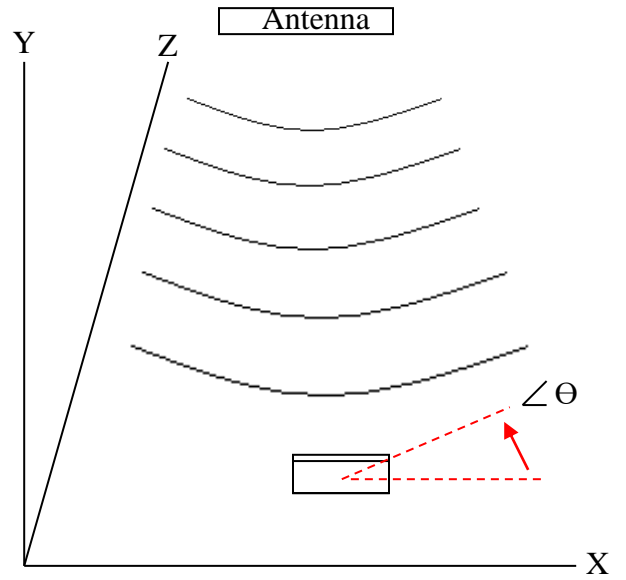


- ✚ Tag can be attached through adhesive tape or can be hanged through nylon thread.

M-Nano Tag Angular Sensitivity
(Relative Read Range vs. Orientation)



Read range (in percent) at various angle.



Tag is rotated in the X-Y plane about the z axis