



M-Tudor Tag ^{2K} (High Memory-2K bit)

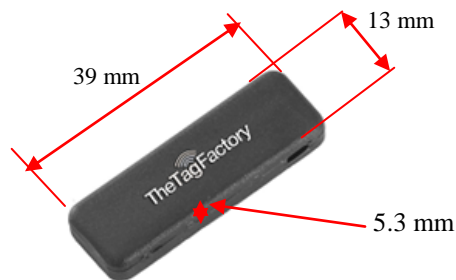
FEATURES

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

APPLICATIONS

- M-Tudor tag is ideal for applications that require high memory for storing information of backup tapes, servers, hard drives and media tapes without any human intervention such as manufacturing, repair etc.
- Inventory control of small tools and manufacturing equipment, servers and network routers.

Chip Type:	Qstar-35, Compatible with EPC global Class 1 Gen 2 & ISO/IEC 18000-6C	
	EPC 96 bit extendable up to 496 bits	
	User Memory 2K bit	
	Data retention of 30 years	
	Write endurance 100,000 cycles	
Mechanical:	Dimension	39 x 13 x 5.3 mm
	Face Material	TPU
	Colour	Black
	Weight	3 g
Electrical:	Operating Frequency	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP68	
Thermal:	Storage Temp.	-25°C to +85°C
	Operating Temp.	-25°C to +85°C
Part Number:	363W1	
Options:	Available with:	
	User Memory 4K, 8K & 64K on request.	
	Other Frequency on request.	
	Other plastic material and colors.	
Adhesive backing for easy mounting (indoor application).		



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

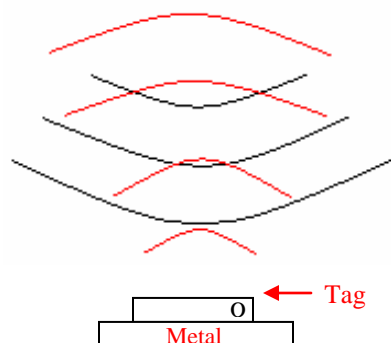
Tag Placement

- ✦ M-Tudor 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



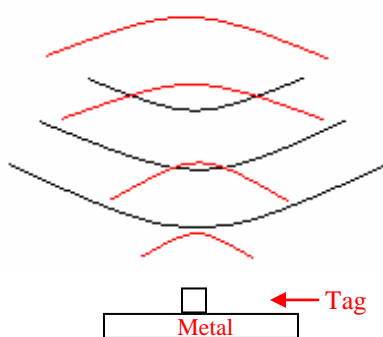
Antenna



Wrong way

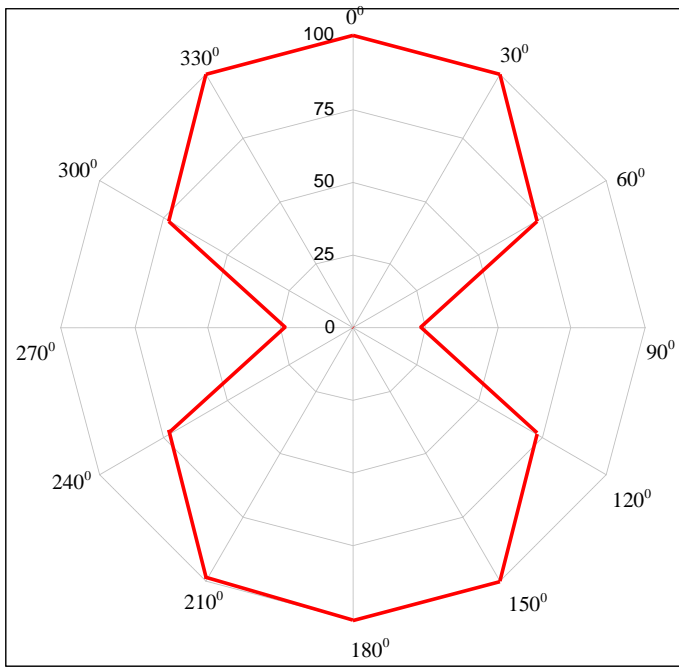


Antenna

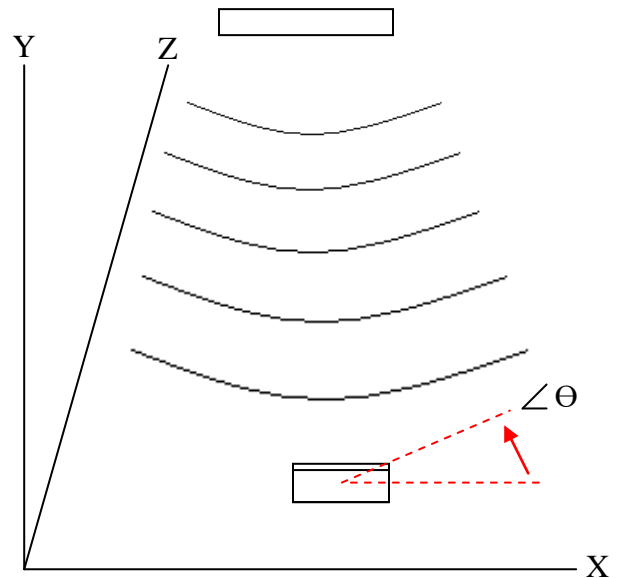


- ✦ Tag can be attached through adhesive tape or can be hanged through nylon thread.

M-Tudor 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