



M-Warrior Tag




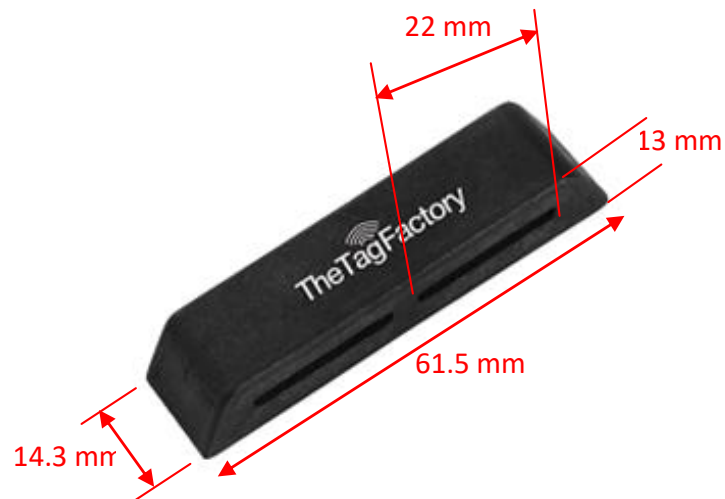
FEATURES

- M-Warrior Tag is ATEX approved and thus can be used in potentially explosive atmosphere.
- The tag operates effectively with read range of over 7m when attached to metal.
- Rugged construction for high durability.
- Can be attached by thread or cable tie.
- Can also be provided with Adhesive tape for easy attachment.

APPLICATIONS

- M-Warrior can be effectively used in asset tracking, Ware house management, Containers and Railway Coaches identification
- Factory automation, Automotive & Security purpose.

Chip Type:	Impinj Monza 4QT EPC Class 1 Gen 2	
	EPC Memory: 128 bit	
	User Memory : 512 bit	
	Data retention : 50 years	
	Write endurance : 100,000 cycles	
Mechanical:	Dimension	61.5 x 14.3 x 13 mm
	Material	ABS GF
	Colour	Black
	Weight	9.2 g
Electrical:	Operating Frequency	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP68	
Thermal:	Storage Temp.	-20°C to +70°C
	Operating Temp.	-20°C to +70°C
Part Number:	318V1-Ex04	
Atex Marking details:	 II 1 G, Ex ia IIC T5 Ga	
Options:	Available with:	
	Other IC type on request	
	Other plastic material and colours e.g. PC/ABS	
Adhesive backing for easy mounting		



Note: Tolerance applicable are Length: ± 1 mm, Width: ± 0.5 mm and Thickness: ± 0.3 mm

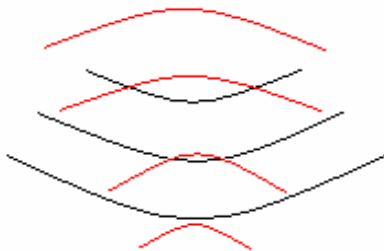
Tag Placement

- ✚ M-Warrior is polarized perpendicular to rectangular mounting holes provided.
- ✚ 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 perpendicular to the axis of tag hole as shown in below

Correct way



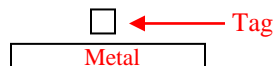
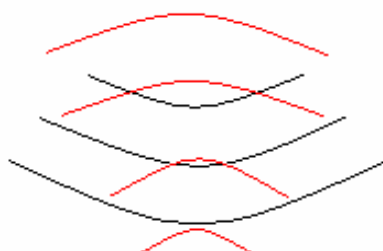
Antenna



Wrong way

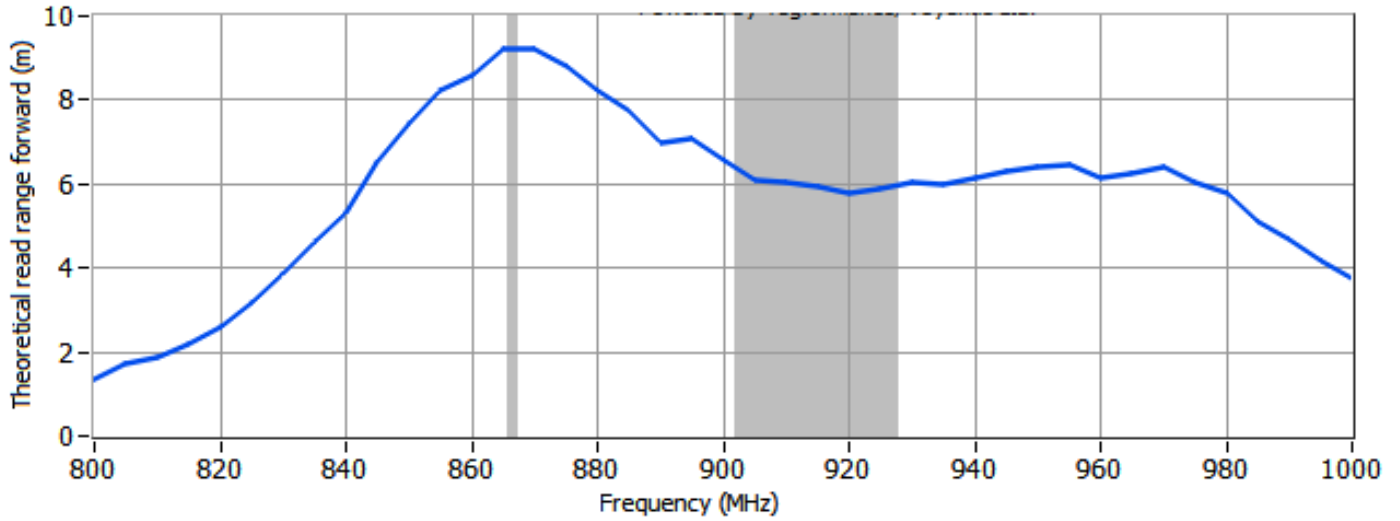


Antenna



- ✚ Tag can be attached either through Cable ties or Adhesive tapes.
- ✚ Two rectangular holes each of 22 x 3 mm are provided for easy mounting

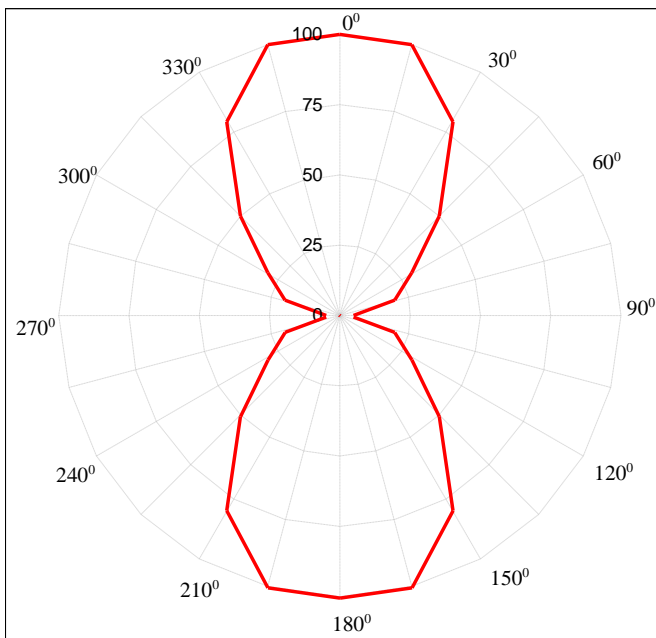
Frequency v/s Read Range Graph



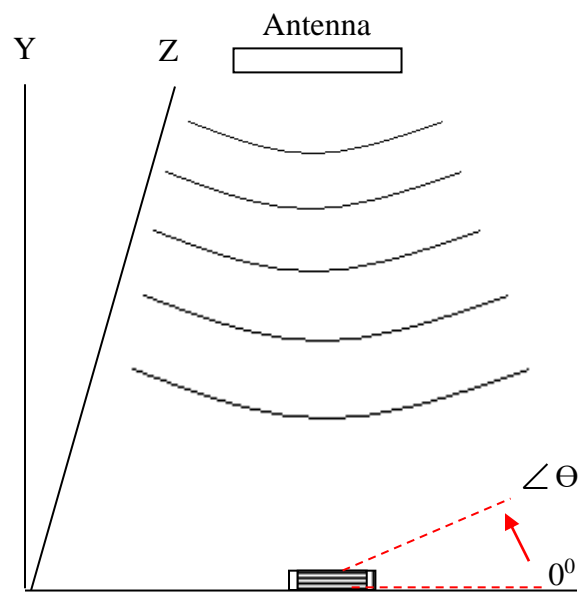
Angular Sensitivity

M-Warrior 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 X