

Data Sheet




M-Warrior Tag (Global)

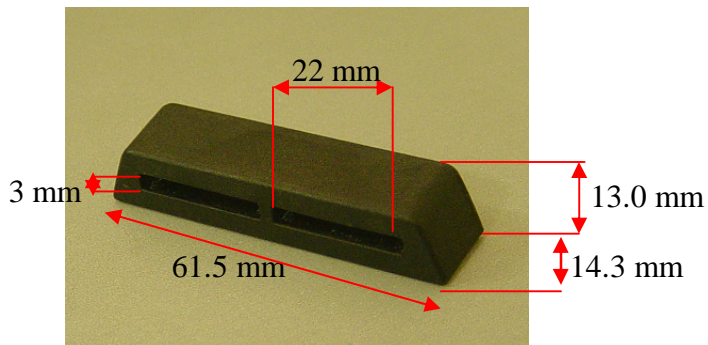
FEATURES

- M-Warrior Tag is ATEX approved and thus can be used in potentially explosive atmosphere.
- The tag is frequency independent tag and 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

- Due to global frequency tuning and high read range, M-Warrior can be effectively used in asset tracking, Ware house management, Containers and Railway Coaches identification in any part of the world irrespective of frequency used in country.
- Factory automation, Automotive & Security purpose.

Chip Type:	Alien Higgs 3 EPC Class 1 Gen 2	
	EPC	96 bit extendable up to 480 bits
	User Memory	512 bit
	Data retention	of 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	860 - 960 MHz
	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-Ex	
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	



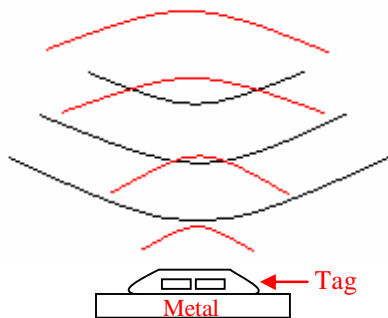
Tag Placement

- ✚ 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



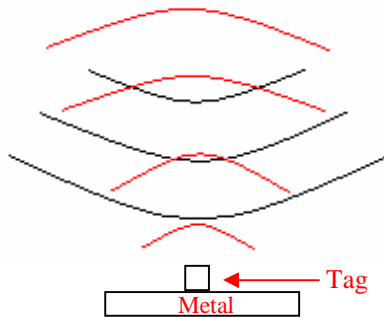
Antenna



Wrong way

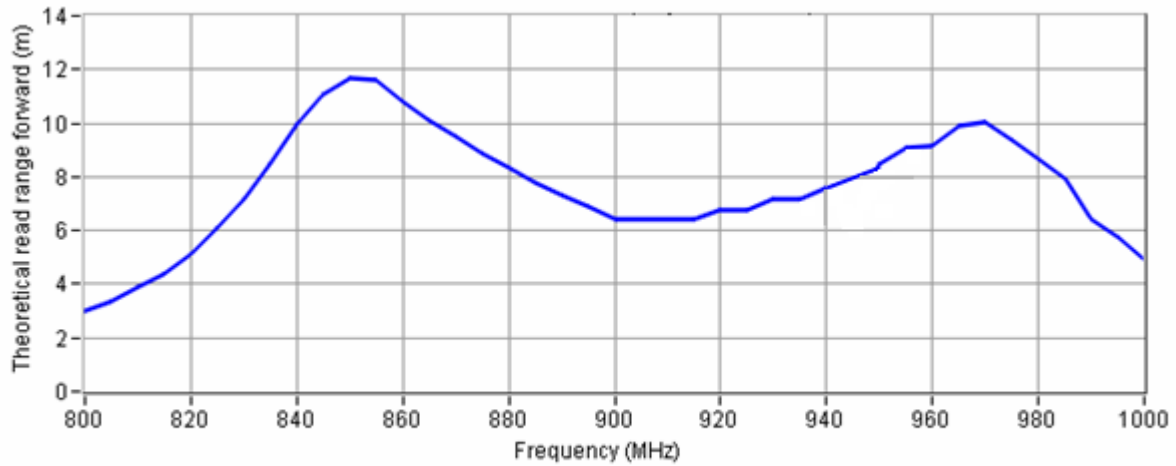


Antenna



- ✚ 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

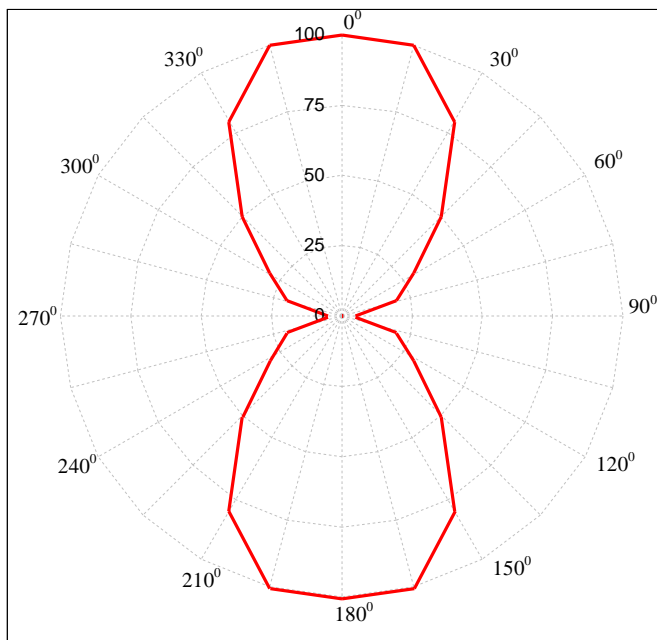
Frequency v/s Read Range Graph



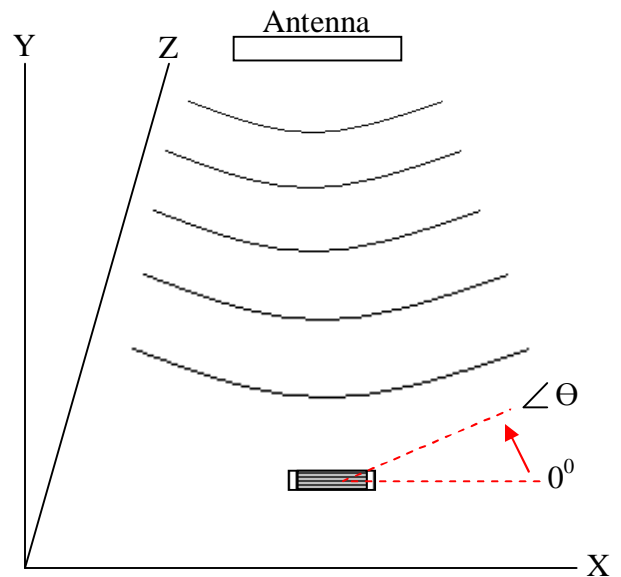
Angular Sensitivity

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

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