



## Armada Tag

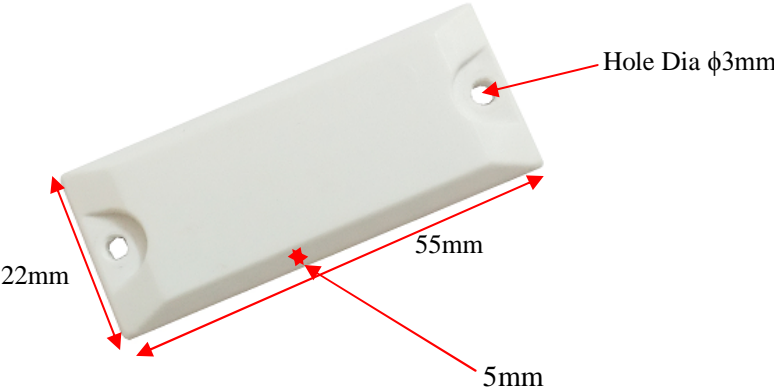
### FEATURES

- Operates effectively with a very good read range.
- Rugged construction for high durability
- Can be attached by screws with the help of two holes.
- Can also be provided with Adhesive tape for easy attachment.
- Flexible Read/Write Range (reader dependant).

### APPLICATIONS

- Used in asset tracking applications such as Plastics Containers and warehousing solutions.
- Most suitable for direct application on corrugated box, parts made up of plastic and wood.
- Factory automation, Automotive & Security purpose.

<b>Chip Type:</b>	<b>Alien Higgs 3 EPC Class 1 Gen 2</b>	
	EPC 96 bit extendable up to 480 bits	
	User Memory 512 bit	
	Data retention of 50 years	
	Write endurance 100,000 cycles	
<b>Mechanical:</b>	Dimension	55 x22 x 5mm
	Material	ABS
	Colour	White
	Weight	5.6 g
<b>Electrical:</b>	Operating Frequency	865-868MHz
	Operating mode	Passive (battery-less transponder)
<b>Ingress Protection:</b>	IP68	
<b>Thermal:</b>	Storage Temp.	-40°C to +85°C
	Operating Temp.	-40°C to +85°C
<b>Part Number:</b>	391V1	
<b>Options:</b>	Available with:	
	Other IC type and Frequency on request	
	Other plastic material and colours	
	Adhesive backing for easy mounting (indoor application)	
	Available for metallic application	



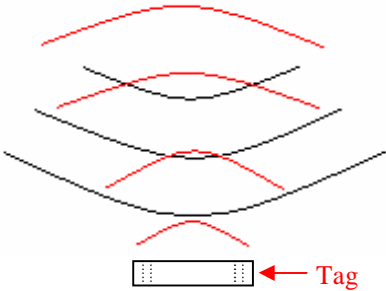
Tag Placement

- ✚ Armada Tag is polarized parallel to the length.
- ✚ Ensure that there is no hindrance between the tag and the reader antenna.
- ✚ Reader antenna should be parallel to the tag length as shown in below figure:

Correct way



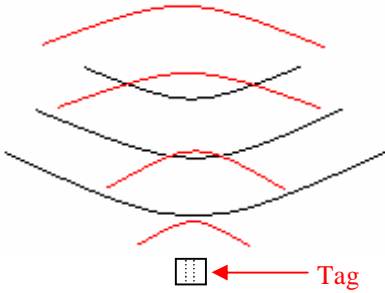
Antenna



Wrong way

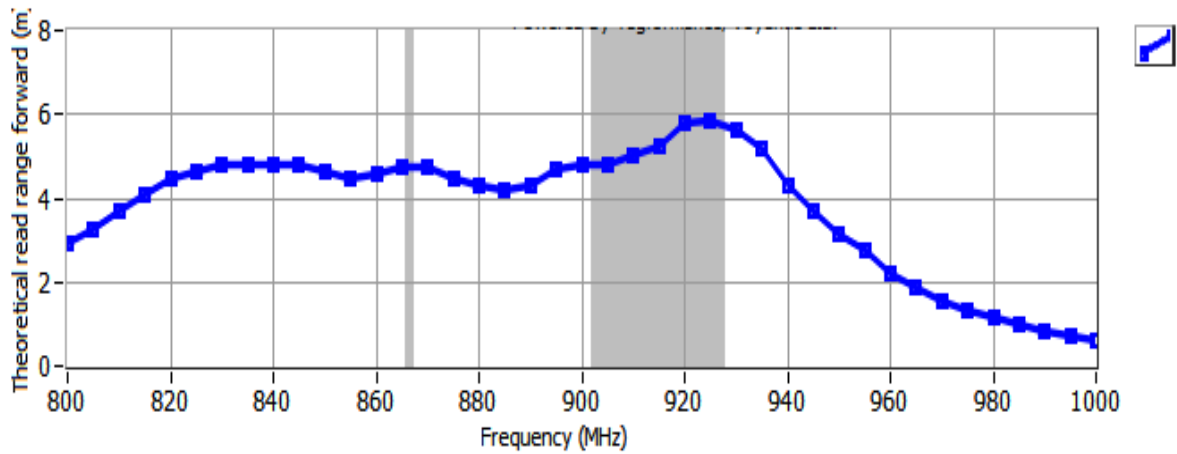


Antenna



- ✚ Tag can be attached either through screw M3/ Rivets / Adhesive tape.
- ✚ The distance between the hole to hole is 47mm

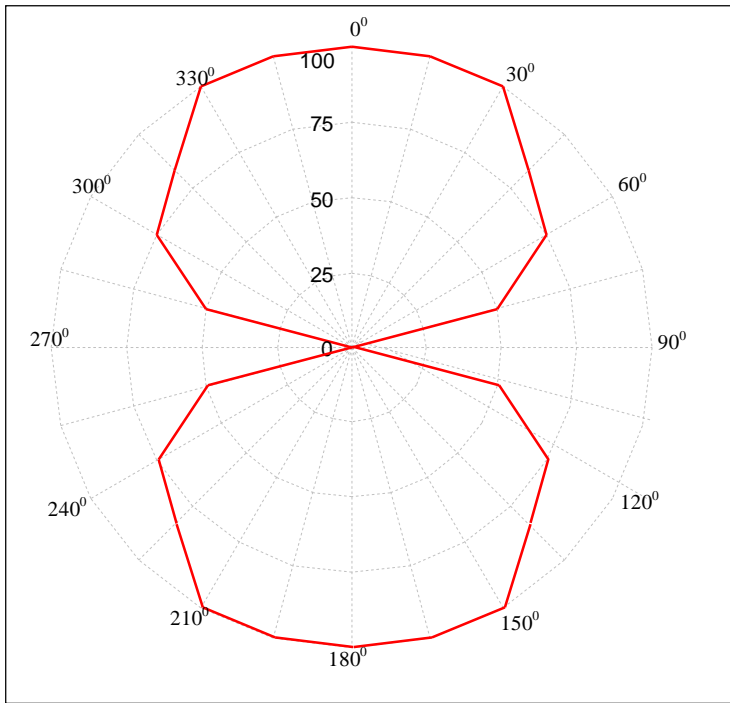
# Frequency v/s Read Range Graph



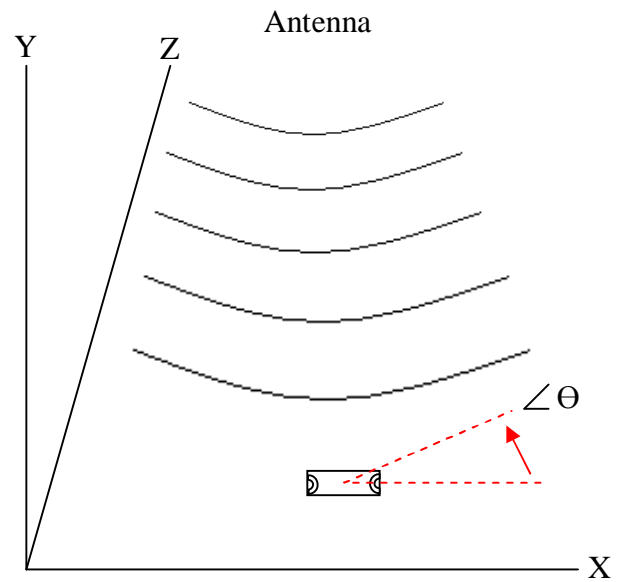
# Orientation sensitivity graph

## Armada Tag orientation 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