



M-Crown Tag (3-in-1)

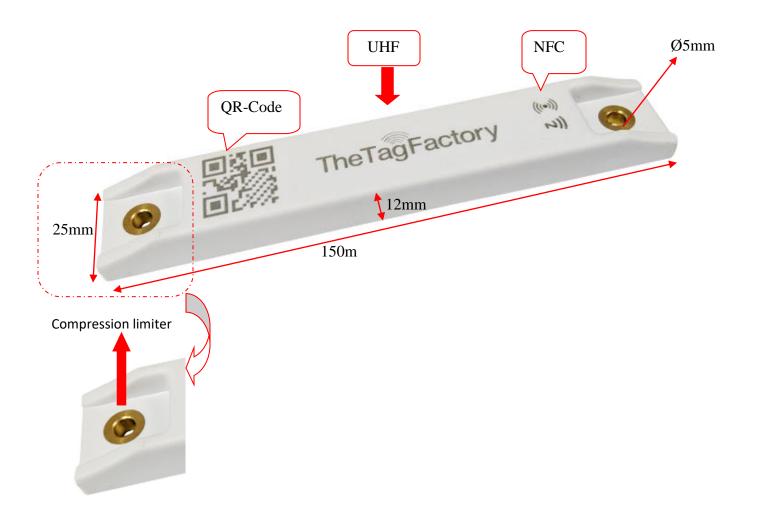
FEATURES

- 3 reading possibilities in single Tag
 - ➤ **UHF:** over 15m reading distance when tagged to metal substrate.
 - ➤ **NFC:** With any NFC enabled Smartphone.
 - > QR-Code: With any Smartphone
- Rugged construction for high durability.
- Can be attached by screws/pop-nail with the help of two compression limiters.

APPLICATIONS

- Can be effectively used in asset tracking, warehouse management, containers, and railway coaches' identification.
- Factory automation, automotive & security purpose.

Chip Type:	Description	Alien Higgs 9 chip, EPC Class 1 Gen 2	NTAG213, 13.56 MHz	
	EPC Memory:	Up to 496-EPC Bits (nominally 96 bits)	Fully compliant with NFC Forum Type 2 Tag and ISO/IEC14443 Type A specifications.	
	User Memory:	688 bits	144 bytes user programmable read/write memory.	
	Data retention:	50 years	10 years	
	Write endurance:	200,000 cycles	100,000 cycles	
Mechanical:	Dimension	150 x 25 x 12 mm		
	Material	ABS		
	Colour	White		
	Weight	32 g		
			<u> </u>	
Electrical:	Operating Freq.	UHF: 865-868MHz, ETSI Free (Also available in FCC & Glofrequency on request)	·	
	Operating mode	Passive (battery-less transponder)		
Ingress Protection:	IP67			
Thermal:	Storage Temp.	-25°C to +85°C		
	Operating Temp.	-25°C to +85°C		
Part Number:	415Z1			
Options:	Available with:			
	Other IC type on request			
	Other plastic material and colours e.g., PC			
	Adhesive backing for easy mounting			



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

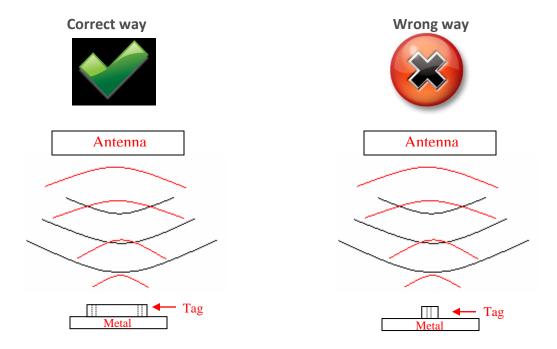
Tag Placement

M-Crown Tag is polarized perpendicular to length of tag.



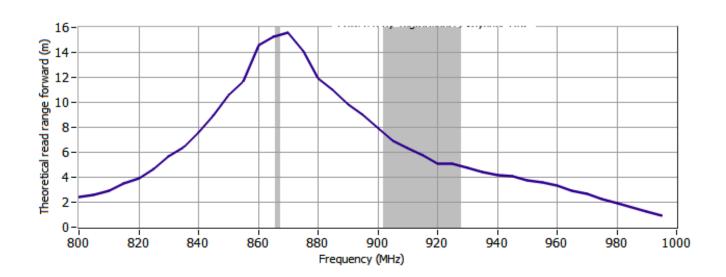
- ♣ Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- Ensure that there is no hindrance between the tag and the reader antenna.

♣ Reader antenna should be parallel to the tag length as shown in below figure:



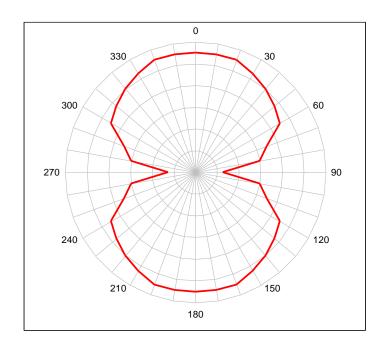
- **★** Tag can be attached either through screw M4/M5 and adhesive tape.
- ♣ The distance between hole to hole is 126mm.

Frequency v/s Read Range Graph



M-Crown Tag Angular Sensitivity

(Relative Read Range vs. Orientation)



Y Z Antenna

Y Z O

Read range (in percent) at various angle

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