

DATASHEET

UHF Trigonometric Tag

Tag Code: U1222911

UHF Trigonometric Tag is a UHF Gen2, Long range, Passive tag. It is ideal for harsh environments and gives excellent performance on metallic objects and plastic surfaces. Tag applications included vehicle identification and asset tracking.



Electrical Specification

Air Interface Protocol	ISO/IEC 18000-6C, EPC Global C1G2
Operational Frequency	865 – 868 MHz or 902 – 928 MHz
Chip	Alien Higgs-3
Memory Configuration	EPC–96 bits, extendible to 480bits
	TID – 96 bits unalterable unique
	User memory – 512 bits
	Access password – 32 bits
	Kill password – 32 bits
Read Range*	On metal – Up to 12 m Off metal – Up to 5 m

Physical / Mechanical Specification

Dimensions	135 x23.3 x 15.5 ± 0.2 mm
Colour**	Black
Weight	35 g
Encasement	PC / ABS High Impact
Quality Assurance	100% reader tested

Environmental Resistance

Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +80°C
Ingress protection rating	IP67
Attachment***	Riveting/Screw/Magnetic/Adhesive
Applicable surface	Metal

Chemical Resistance

Resistant to continuous exposure to salt water for 2 hours
Resistant to continuous exposure to motor oil for 2 hours
Additionally, abrasion resistant against HCL and IPA

Additional Services

Pre-encoding	On request
Customization***	Logo / text printing on request

* Actual Read range may vary depending upon the reader and environmental factor

** Other on request

*** Available as an option at extra cost

Order Information

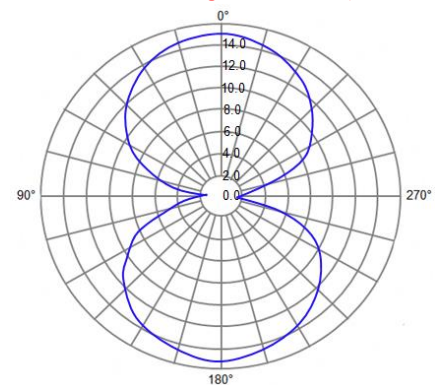
Part No.	Description
U1222911-EU	Alien higgs-3 chip tuned at ETSI frequency
U1222911-US	Alien higgs-3 chip tuned at US frequency

Dimensions



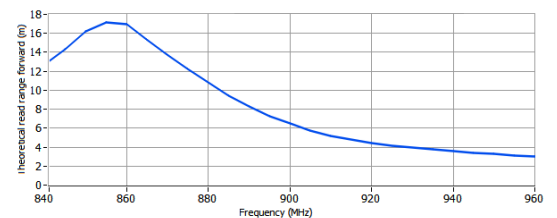
Radiation Pattern Graph

(Orientation v/s Read Range Orientation)



Linear Frequency Graph

(Frequency v/s Read Range Orientation)



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