



Manufacturer of RFID tags

DATASHEET

UHF IT Asset Tag

Tag Code: U5421211

IT Asset tag is a UHF Gen2 long range, small sized passive tag. It is ideal for asset tracking and gives excellent performance on metallic objects.



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 5 m Off metal – Up to 2 m

Physical / Mechanical Specification

Dimensions	30 x 11 x 05 ± 0.2 mm
Colour**	Black
Weight	9.5 g
Encasement	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***	Self 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

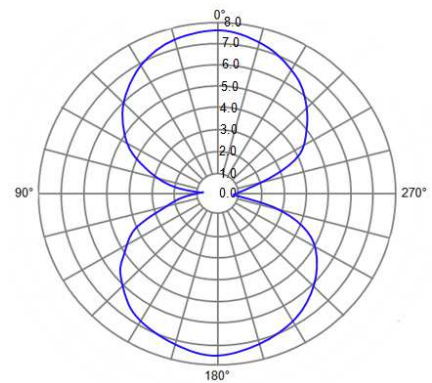
Part No.	Description
U5421211-EU	Alien higgs-3 chip tuned at ETSI frequency
U5421211-US	Alien higgs-3 chip tuned at US frequency

Dimensions



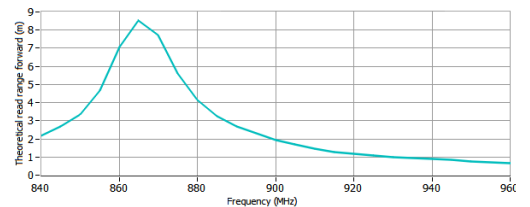
Radiation Pattern Graph

(Orientation v/s Read Range)



Linear Frequency Graph

(Frequency v/s Read Range)



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