



Manufacturer of RFID tags

# DATASHEET

## UHF Label Tag

Tag Code: U163XX10

Label Tag is the UHF Gen2 long range passive tag. It is ideal for Pallet Tracking. Also can be used for any other off-metal application like plastic, cardboard, Carton boxes tracking & identification etc



### Electrical Specification

Air Interface Protocol	ISO/IEC 18000-6C, EPC Global C1G2
Operational Frequency	860 – 960 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
Data Retention	50 Years
Writ endurance	100,000 cycles

### Physical / Mechanical Specification

Dimensions	115 x 30 mm	115 x 22 mm	65 x 22 mm
Antenna used	O9654	O9640	O9610
Read Range	10 – 12 m	9 – 11 m	5 – 7 m
Weight	1.98 g	1.7 g	1.1 g
Tag Code	U1632710	U1631510	U1630510
Thickness	0.7 mm		
Encasement	PET		
Quality Assurance	100% reader tested		

## Environmental Resistance

Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
Ingress protection rating	IP65
Attachment***	Self Adhesive
Applicable surface	Plastic, Wooden, Cardboard

## 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

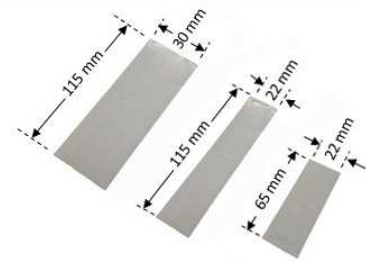
\*\* Other on request

\*\*\* Available as an option at extra cost

## Order Information

Part No.	Description
U136XX10	With Alien higgs-3 chip tuned at Global frequency
U163XX12	With Alien higgs-4 chip tuned at Global frequency

## Dimensions



## Radiation Pattern Graph

(Orientation v/s Read Range)

To be updated

## Linear Frequency Graph

(Frequency v/s Read Range)

To be updated

## Omnia Technologies Pvt. Ltd.

Corporate Office  
691, Udyog Vihar Phase V, Gurugram, Haryana-122016, India, +91(124) 4203899, 4101506

Manufacturing Unit  
Plot No. 68, Sector- 5, IMT Manesar, Gurugram, Haryana - 122050, INDIA | +91(124) 4366174, 4366411, +91 (124) 4366410 (Fax)