

# DATASHEET

## UHF Wristband Tag

Tag Code: U38A3010

Wristband tag is used for access control at events, in amusement parks and recreational areas for automated admissions, guest identification, cashless transaction at point of sale and keyless entry. This tag appears similar to a watch and is reusable.



### 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 Wrist – Up to 2 m<br>Off metal – Up to 2 m |

### Physical / Mechanical Specification

|                   |                          |
|-------------------|--------------------------|
| Dimensions        | 255 x 36.5 x 13 ± 0.2 mm |
| Colour**          | Black & Blue             |
| Weight            | 13 g                     |
| Encasement        | ABS / EVA                |
| 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                | Human Wrist    |
| Applicable surface        | Plastic        |

## 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

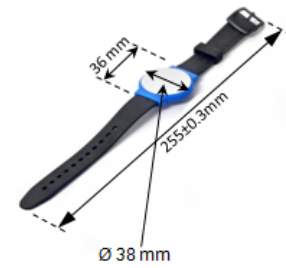
\*\* Other on request

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

## Order Information

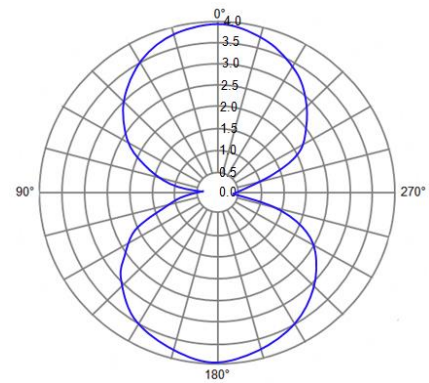
| Part No.    | Description                                |
|-------------|--|
| U38A3010-EU | Alien higgs-3 chip tuned at ETSI frequency |
| U38A3010-US | Alien higgs-3 chip tuned at US frequency   |
| U38A3012-EU | Alien higgs-4 chip tuned at ETSI frequency |
| U38A3012-EU | Alien higgs-4 chip tuned at US frequency   |

## Dimensions



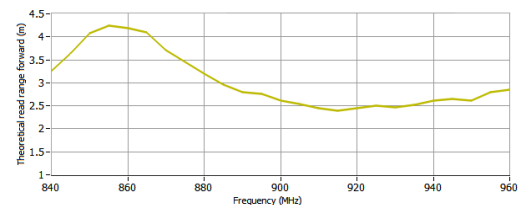
## Radiation Pattern Graph

(Orientation v/s Read Range Orientation)



## Linear Frequency Graph

(Frequency v/s Read Range Orientation)



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