



Manufacturer of RFID tags

# DATASHEET

## Fastag Windshield Tag (Tamperproof)

Tag Code: U41X2815

Fastag windshield Tag is the UHF Gen2 Tamperproof ARAI approved long range passive tag. It is ideal for National Electronic Toll Collection (NETC), automatic Vehicle identification (AVI), Transportation application and Electronic vehicle Registration, Parking & Security Access application 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                             |
| Write endurance        | 100,000 Cycles                       |
| Read Range*            | 8 – 10 m on Glass                    |

## Physical / Mechanical Specification

|                   |   |
|-------------------|---|
| Dimensions        | 100 x 50 ± 0.2 mm                             |
| Antenna Material  | Conductive ink                                |
| Adhesive tape     | High strength adhesive                        |
| Colour**          | As per NPCI guidelines for each vehicle class |
| Quality Assurance | 100% reader tested                            |

## Environmental Resistance

|                       |                  |
|-----------------------|------------------|
| Operating temperature | -20°C to +80°C   |
| Storage temperature   | -40°C to +100°C  |
| Relative Humidity     | 95% Condensing   |
| Attachment***         | Self Adhesive    |
| Applicable surface    | Windshield glass |
| UV Resistant          | Yes              |

## 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

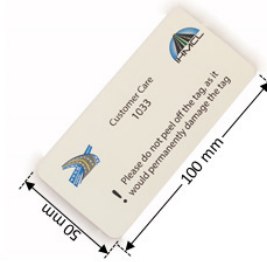
\*\* Other on request

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

## Order Information

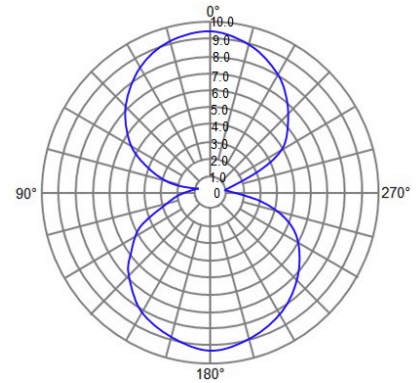
| Part No. | Description  |
|----------|--|
| U41D2815 | Vehicle Class 4, Alien higgs-3 chip, Global frequency  |
| U41C2815 | Vehicle Class 5, Alien higgs-3 chip, Global frequency  |
| U4172815 | Vehicle Class 6, Alien higgs-3 chip, Global frequency  |
| U4162815 | Vehicle Class 7, Alien higgs-3 chip, Global frequency  |
| U41E2815 | Vehicle Class 12, Alien higgs-3 chip, Global frequency |
| U41G2815 | Vehicle Class 15, Alien higgs-3 chip, Global frequency |
| U41H2815 | Vehicle Class 16, Alien higgs-3 chip, Global frequency |

## Dimension



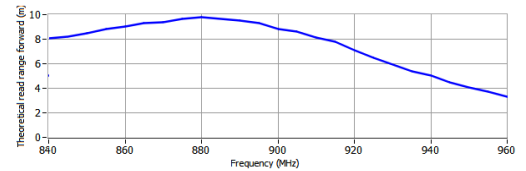
## Radiation Pattern Graph

(Orientation v/s Read Range)



## Linear Frequency Graph

(Frequency v/s Read Range)



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