

## Dash iN XS

### STANDARD

### HIGH TEMPERATURE

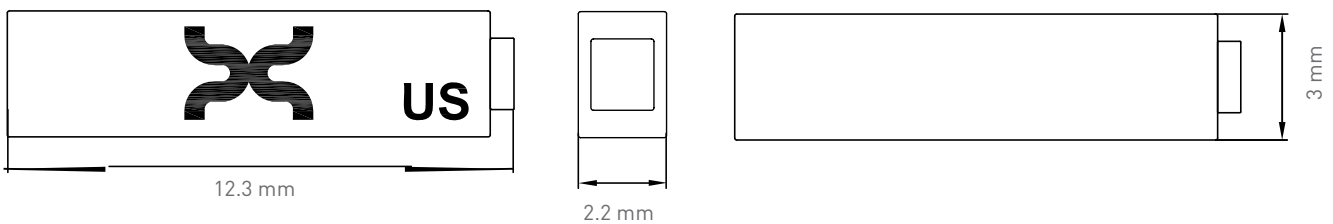
#### Functional Specifications

|                                       |   |
|---------------------------------------|---|
| RF air protocol                       | EPC Class 1 Gen 2; ISO18000-6C              |
| Operating frequency                   | UHF 902-928 MHz (US); 866-868 MHz (EU)      |
| IC type                               | Alien Higgs-3                               |
| Memory configuration                  | 96-bit EPC; 512-bit user memory; 64-bit TID |
| Functionality                         | Read / write (user programmed)              |
| Memory – expected read / write cycles | 100,000 cycles at 77°F (25°C)               |
| Data retention                        | Up to 50 years <sup>1</sup>                 |
| Warranty (limited)                    | 1 year                                      |

#### Environmental and Industry Compliance

|            |                                      |
|------------|--------------------------------------|
| RoHS&REACH | EU Directive 2011/65/EU, EC1907/2006 |
| CE         | Yes                                  |
| ATEX/IECEX | Certified                            |

#### Product Dimensions and Weight



|                 |                    |
|-----------------|--------------------|
| Dimensions (mm) | 12.3 x 3 x 2.2     |
| tolerance       | +/- 0.3            |
| Dimensions (in) | 0.48 x 0.12 x 0.09 |
| tolerance       | +/- 0.012          |
| Weight          | 0.016 oz (0.44 g)  |



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### Performance Characteristics

|   |                    |
|---|--------------------|
| Read range in metal (2W ERP) <sup>2</sup> | Up to 5 ft (1.5 m) |
| Polarization                              | Linear             |

### Physical Specifications

|                 |                 |
|-----------------|-----------------|
| Material        | Ceramic         |
| Mounting system | Epoxy, embedded |
| Paint color     | White           |
| Logo color      | Green           |

### Operational and Environmental Specifications

|                         |   |
|-------------------------|---|
| Shock (drop)            | 3 ft (1 m) to concrete/granite up to 200 cycles |
| Vibration               | MIL-STD-810G                                    |
| Compression strength    | Packaging dependent                             |
| IP classification       | IP 68   |
| Humidity                |   |
| Operational humidity    | 5%-95% non-condensing                           |
| Storage humidity        | 5%-95% non-condensing                           |
| Operational temperature |   |
| Cold                    | -40°F (-40°C)                                   |
| Dry heat                | +185°F (+85°C)                                  |
| Thermal shock           | -40°F to 185°F (-40°C to +85°C); cycled         |

### STANDARD VERSION

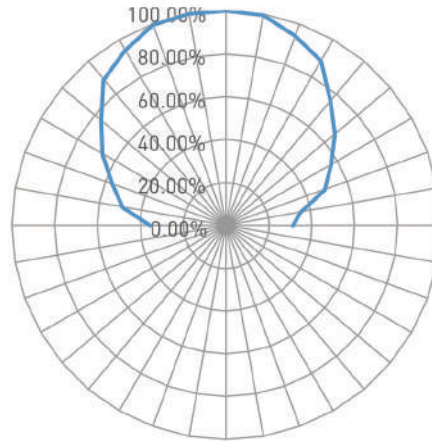
|                                  |                 |
|----------------------------------|-----------------|
| Application temperature          |                 |
| Cold                             | -40°F (-40°C)   |
| Dry heat (Long term, hours/days) | +302°F (+150°C) |
| Dry heat (Short term, minutes)   | +428°F (+220°C) |

### HIGH TEMPERATURE VERSION

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Application temperature*         |                                      |
| Cold                             | -40°F (-40°C)                        |
| Dry heat (Long term, hours/days) | +428°F (+220°C)                      |
| Dry heat (Short term, hours)     | +482°F (+250°C) 6 hours              |
| Peak temperature                 | +716°F (+380°C) less than 10 seconds |

\*The tag performance in high temperature application depends on tag mounting method and environmental conditions.

## Radiation Pattern



In metal

## Order information

|                |                                     |
|----------------|-------------------------------------|
| X4201-US000-H3 | Dash iN US Standard Version         |
| X4201-EU000-H3 | Dash iN EU Standard Version         |
| X4201-US050-H3 | Dash iN US High Temperature Version |
| X4201-EU050-H3 | Dash iN US High Temperature Version |

## Dash XS

**AUTOCLAVABLE**

For more information on Dash XS autoclavable version, please download [here](#) or contact us at [sales@xerafy.com](mailto:sales@xerafy.com)