

## Dash-On XS



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### 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>
Read rate	400 tags per second for 96-EPC bit number
Warranty (limited)	1 year

### Performance Characteristics

Read range on metal (2W ERP) <sup>2</sup>	Up to 6.6 ft (2 m)
Polarization	Linear

### Physical Specifications

Material	Ceramic
Mounting system	Epoxy
Color	Black

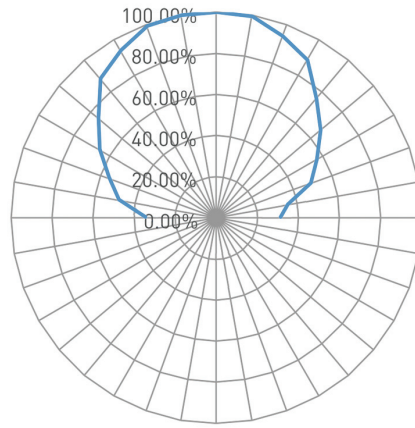
### Environmental and Industry Compliance

RoHS	EU Directive 2002/95/EC
CE	Yes
ATEX	ATEX Compliant



<sup>1</sup> The chip data retention is based on chip operating under general environment conditions.

<sup>2</sup> Actual read range may vary based upon use case and antenna power.



On metal

### Operational and Environmental Specifications

#### Operational temperature

Cold	-40°F (-40°C)
Dry heat (Long term, days/weeks/years)	+185°F (+85°C)

#### Application temperature

Cold	-40°F (-40°C)
Dry heat (Short term, minutes/hours)	+302°F (+150°C)

#### Humidity

Operational humidity	5%-95% non-condensing
Storage humidity	5%-95% non-condensing

#### Shock (drop)

3 ft (1 m) to concrete/granite up to 200 cycles

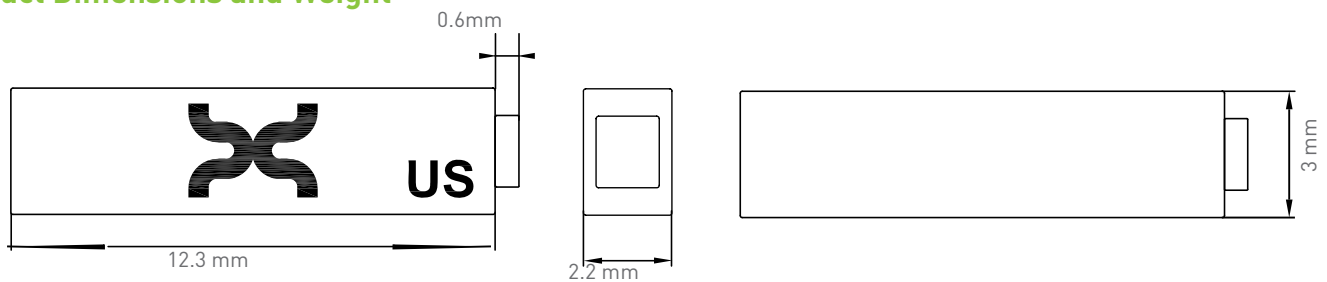
#### Vibration

MIL-STD-810F

#### IP classification

IP68

### 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)

### Order information

X4101-US000-H3

Dash On US

X4101-EU000-H3

Dash On EU