

## Pico iN Plus

### STANDARD

### HIGH TEMPERATURE

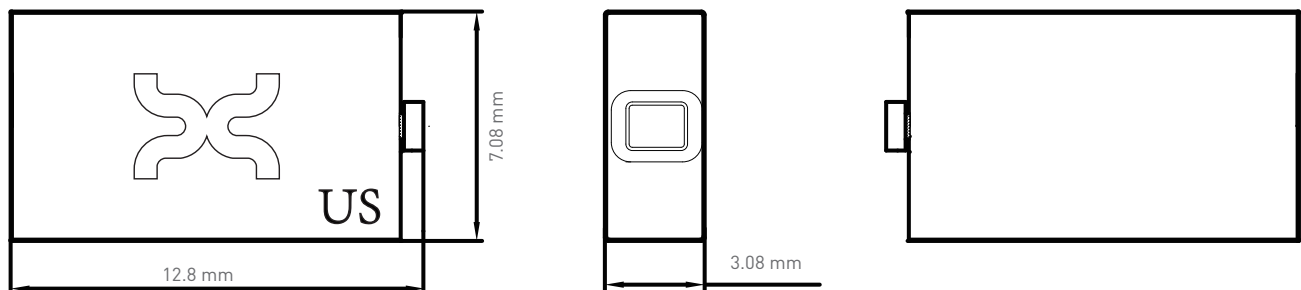
#### Functional Specifications

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/tolerance (mm)	12.8 (+/-0.3) x 7.08 (+/-0.3) x 3.08 (+/-0.2)
Dimensions/tolerance (in)	0.50 (+/-0.011) x 0.28 (+/-0.011) x 0.12 (+/-0.008)
Weight	0.05 oz (1.4 g)



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

Pico-iN Plus

**STANDARD**

**HIGH TEMPERATURE**



**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, injection mould
Paint color	White
Logo color	Grey

**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	-22°F (-30°C)
Dry heat	+185°F (+85°C)
Thermal shock	-22°F to 185°F (-30°C to +85°C); cycled

**STANDARD VERSION**

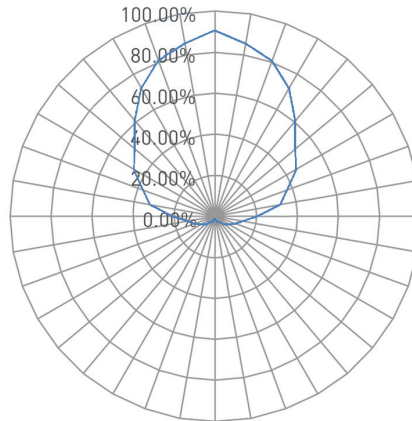
Application temperature	
Cold	-40°F (-40°C)
Dry heat (Long term, hours/days)	+302°F (+150°C)
Dry heat (Short term, minutes)	+428°F (+220°C)

**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



## Order information

X3210-US000-H3	Pico iN Plus US Standard Version
X3210-EU000-H3	Pico iN Plus EU Standard Version
X3210-US050-H3	Pico iN Plus US High Temperature Version
X3210-EU050-H3	Pico iN Plus EU High Temperature Version

## Pico Plus

**AUTOCLAVABLE**

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

**RFID4u**  
Store  
Authorized Reseller:  
RFID4UStore  
[www.rfid4ustore.com](http://www.rfid4ustore.com)  
1-408-739-3500  
[sales@rfid4ustore.com](mailto:sales@rfid4ustore.com)