

Micro-iN



Functional Specifications

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|---------------------------------------|--|
| RF air protocol | EPC Class 1 Gen 2; ISO18000-6C |
| Operating frequency | UHF 902-928 MHz (US); 866-868 MHz (EU); 952-954 MHz (JP) |
| IC type | Alien Higgs-3 |
| Memory configuration | 96-EPC bits; 512-bit user memory |
| Functionality | Read / write (user programmed) |
| Memory – expected read / write cycles | 100,000 cycles at 77°F (25°C) |
| Data retention | 10 years |
| Read rate | 400 tags per second for 96-EPC bit number |
| Warranty (limited) | 1 year |

Performance Characteristics

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|--|-------------------|
| Read range on metal, 4W EIRP (2W ERP)* | Up to 20 ft (6 m) |
| Polarization | Linear |
| Performance quality | 100% tested |

*Actual read range may vary based upon specific application case and antenna power

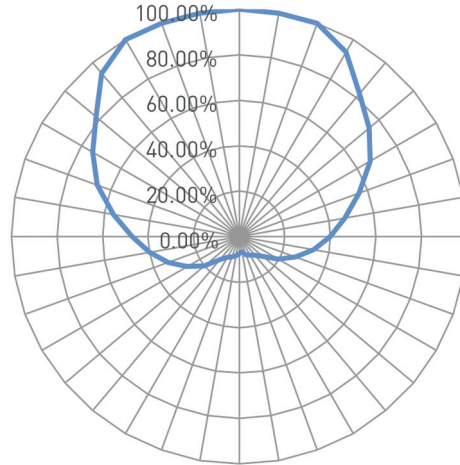
Physical Specifications

| | |
|----------|---------|
| Material | Ceramic |
| Color | White |

Environmental and Industry Compliance

| | |
|------------|------------------------------------|
| Compliance | RoHS (EU version), CE (EU version) |
|------------|------------------------------------|

Radiation Pattern



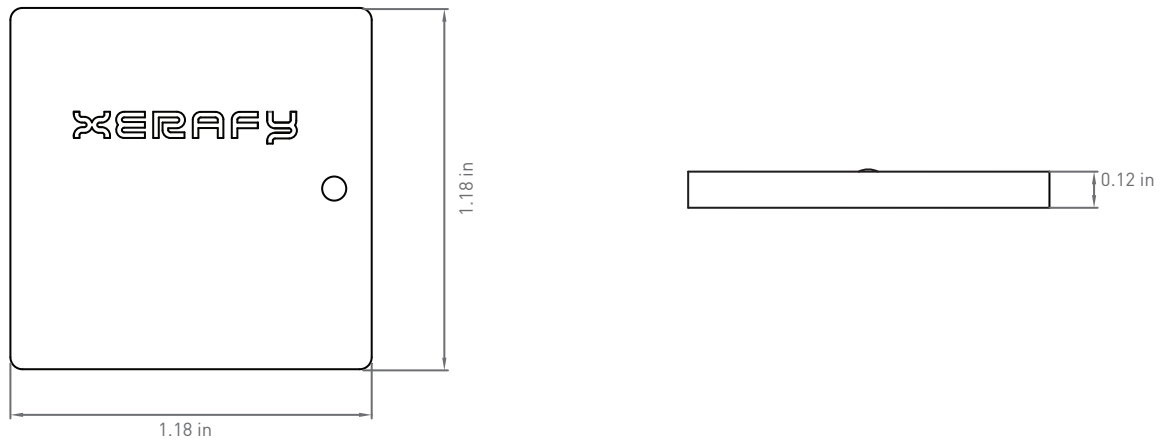
Operational and Environmental Specifications

| | |
|-------------------------|---|
| 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 |

| | |
|------------------|-----------------|
| Peak temperature | |
| Cold | -40°F (-40°C) |
| Dry heat | +302°F (+150°C) |

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

Product Dimensions and Weight



| | |
|------------|--|
| Dimensions | 1.18 x 1.18 x 0.12 in (30 x 30 x 3 mm) |
| Weight | 0.53 oz (15 g) |

Cylindrical Socket Dimensions for Flush-mounting

Cylindrical socket dimensions

1.77 x 0.13 in (45 x 3.3 mm)

