verify. quantify. XERAFY™

Nano^{X} II

Functional Specifications

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

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

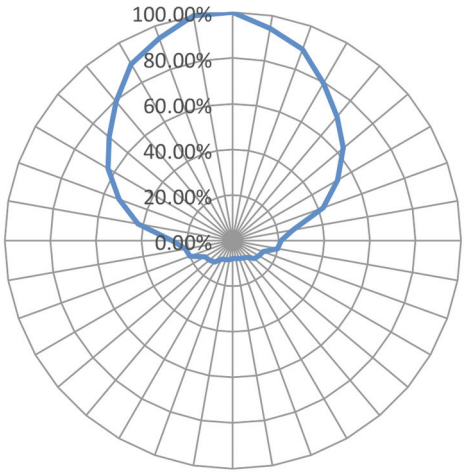
Physical Specifications

Material	Engineering-grade nylon polymer
Mounting system	High performance adhesive
Color	Charcoal

Environmental and Industry Compliance

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

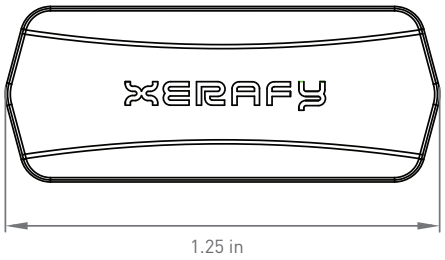
Radiation Pattern

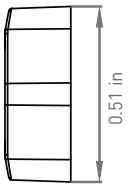


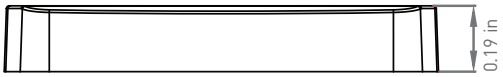
Operational and Environmental Specifications

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
Application 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
Shock (drop)	3 ft (1 m) to concrete/granite up to 200 cycles
Compression strength	166.8 psi (1150 kPa)
IP classification	IP68

Product Dimensions and Weight







Dimensions	1.25 x 0.51 x 0.19 in (31.7 x 12.9 x 4.8 mm)
Weight	0.18 oz (5 g)