

Data Trak



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-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 13 ft (4 m)
Read range off-metal, 4W EIRP (2W ERP)*	Up to 6.6 ft (2 m)
Read range hanging (both sides), 4W EIRP (2W ERP)*	Up to 6.6 ft (2 m)
Polarization	Linear
Performance quality	100% tested

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

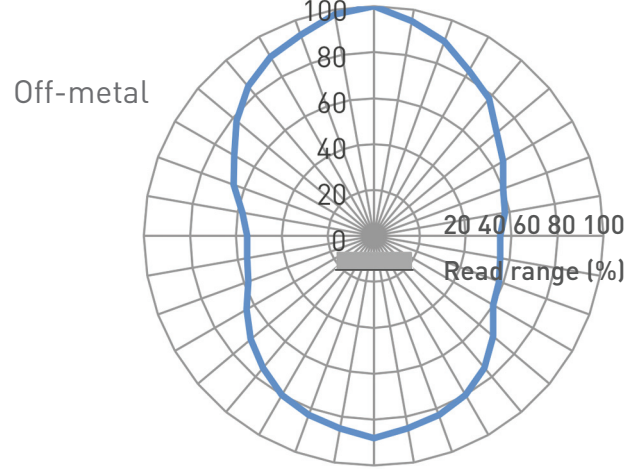
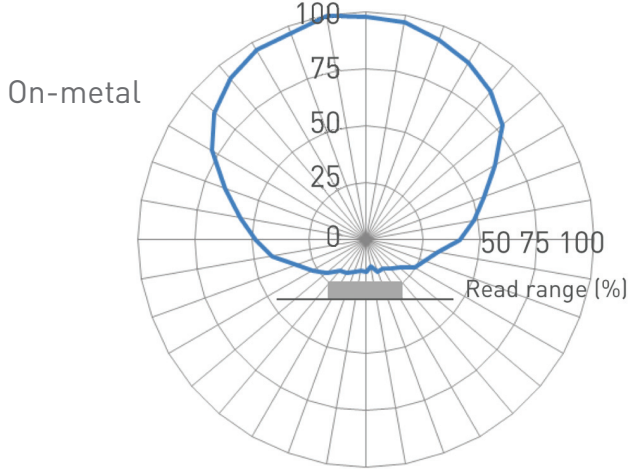
Physical Specifications

Material	ABS plastic
Mounting system	High performance adhesive; hang clip (optional)
Color	Cool gray, optional colors available
Optional label	1.38 x 0.47 in (35 x 12 mm) label with standard or custom data in 2D matrix and human readable EPC code

Environmental and Industry Compliance

FSTC	FSTC-compliant
Compliance	RoHS (EU version), CE (EU version)

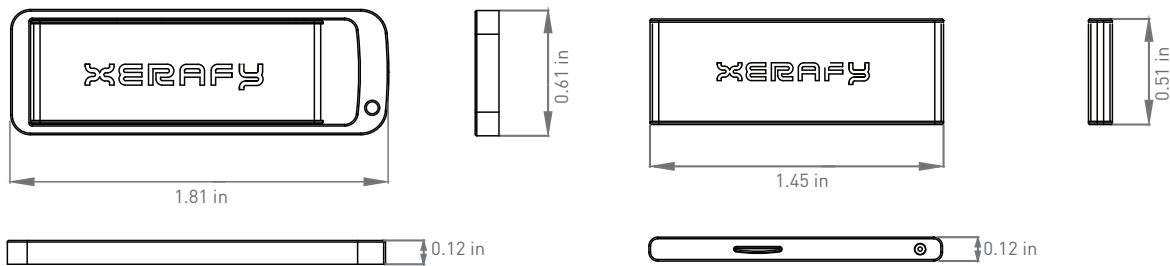
Radiation Pattern



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	+185°F (+85°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	14.5 psi (100 kPa)
IP classification	IP54

Product Dimensions and Weight



Dimensions	1.45 x 0.51 x 0.12 in (36.7 x 13 x 3 mm)
Dimensions with hang clip	1.81 x 0.61 x 0.12 in (46 x 15.6 x 3 mm)
Weight	0.07 oz (2 g)

Hang Clip Installation Guide

