

Slim Trak



Functional Specifications

RF air protocol	EPC Class 1 Gen 2; ISO18000-6C
Operating frequency	UHF 860-930 MHz (Global)
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 ¹
Warranty (limited)	1 year

Performance Characteristics

Read range on-metal (2W ERP) ²	Up to 6.5 ft (2 m)
Read range off-metal (2W ERP) ²	Up to 4.9 ft (1.5 m)
Polarization	Linear

Physical Specifications

Material	FR4
Mounting system	Adhesive (TESA 51972), epoxy (optional)
Color	Surface printing: Gray / Logo: Gloss white

Environmental and Industry Compliance

RoHS	EU Directive 2002/95/EC
CE	Approved

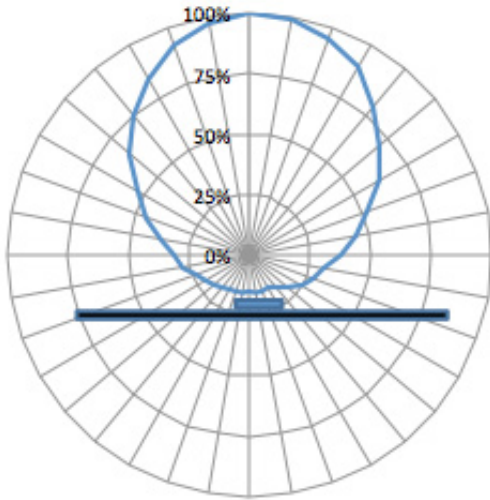


¹ The chip data retention is based on chip operating under general environment conditions.

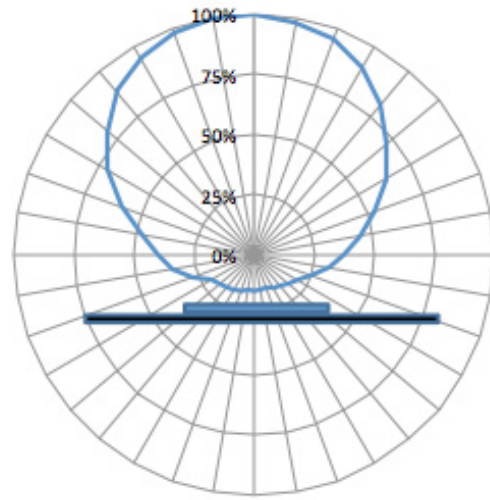
² Actual read range may vary based upon use case and antenna power.

Radiation Pattern

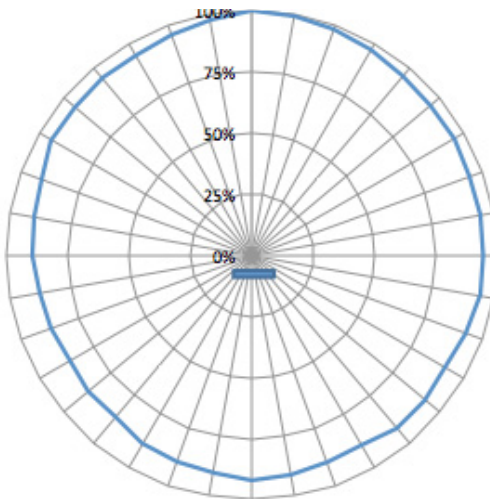
On metal - Horizontal



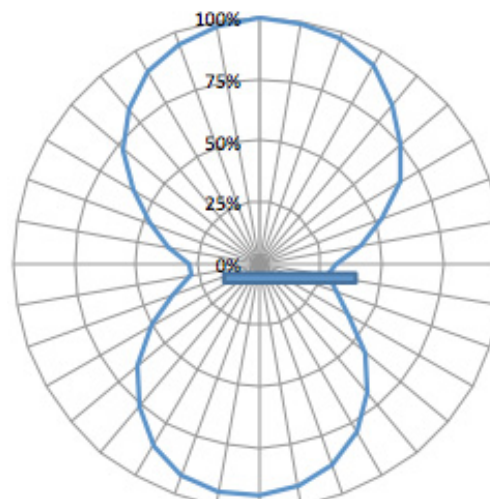
On metal - Vertical



Off metal - Horizontal



Off metal - Vertical



Operational and Environmental Specifications

Operational temperature

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

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 and Vibration

MIL-STD-810F

Impact

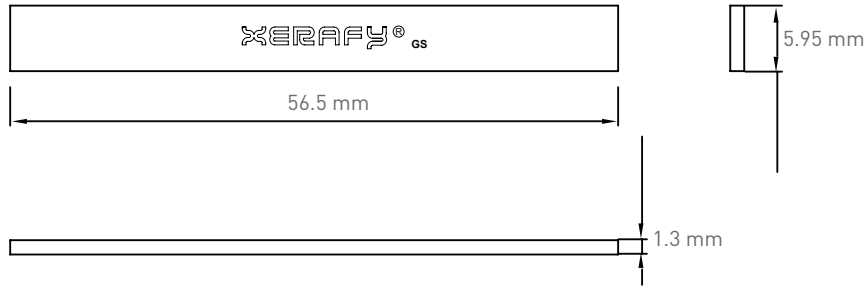
2kg from 1m

IP classification

IP68



Product Dimensions and Weight



Dimensions (mm)	56.5 x 5.95 x 1.3
Tolerance	+/- 0.15
Dimensions (in)	2.22 x 0.234 x 0.0512
Tolerance	+/- 0.006
Weight	0.035 oz (1 g)

Order information

X0320-GL001-H3	Slim Trak
----------------	-----------