

Versa 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-bit EPC ; 512-bit user memory; 64-bit TID
Functionality	Read / write (user programmed); full duplex protocol
Memory – expected read / write cycles	100,000 cycles at 77°F (25°C)
Data retention	Up to 50 years ¹
Read rate	400 tags per second for 96-EPC bit number
Warranty(limited)	1 year

Performance Characteristics

Read range on-metal (2W ERP) ²	Up to 26 ft (8 m)
Read range off-metal (2W ERP) ²	Up to 13 ft (4 m)
Polarization	Linear

Physical Specifications

Material	Industry Grade Polymer
Mounting system	High performance adhesive
Color	Standard color – gray, other colors available

Environmental and Industry Compliance

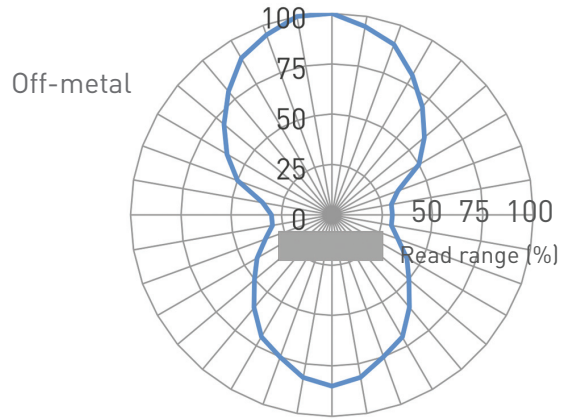
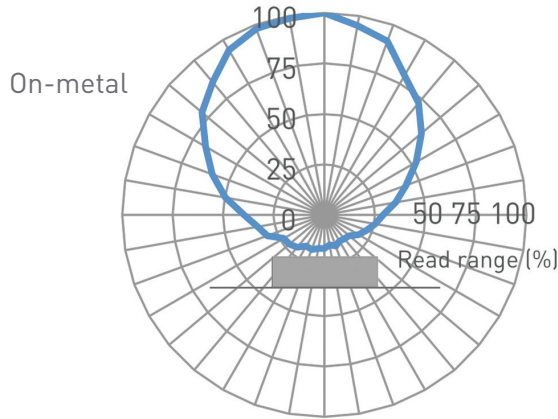
RoHS	EU Directive 2011/65/EU
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¹ The chip data retention is based on chip operating under general environment conditions.

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

Radiation Pattern



Operational and Environmental Specifications

Operational temperature

Cold	-40°F (-40°C)
Dry heat (Long term, days/weeks/years)	+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 (Short term, minutes/hours)	+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

Vibration

MIL-STD-810F

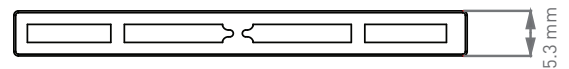
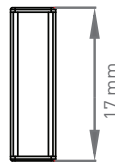
Compression strength

26.1 psi (180 kPa)

IP classification

IP54

Product Dimensions and Weight



Dimensions (mm)

50.3 x 17 x 5.3

tolerance

+/- 0.35

Dimensions (in)

1.98 x 0.67 x 0.21

tolerance

+/- 0.014

Weight

0.11 oz (3 g)

Order information

X0350-US011-H3

Versa Trak US

X0350-EU011-H3

Versa Trak EU