

Versa Trak II



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
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	Anti-UV Industry Grade Polymer
Mounting system	Rivet hole, ø 0.14 in (3.5 mm), adhesive (optional) Cable tie
Color	Cool gray

Environmental and Industry Compliance

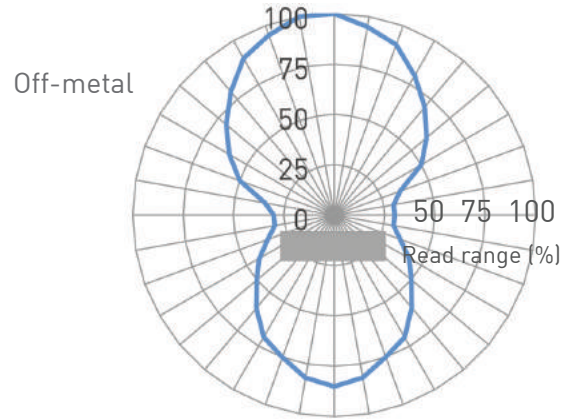
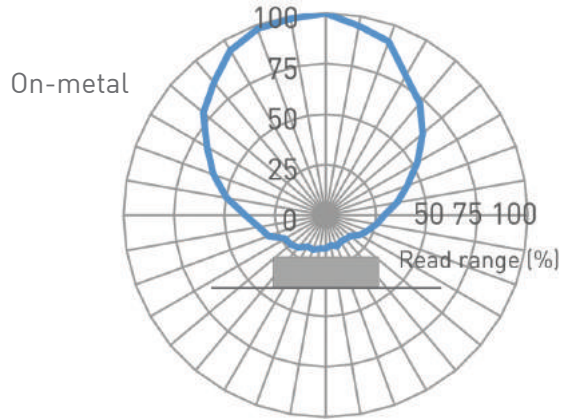
RoHS&REACH	EU Directive 2011/65/EU, EC1907/2006
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¹ The chip data retention is based on chip operating under general environment conditions.

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

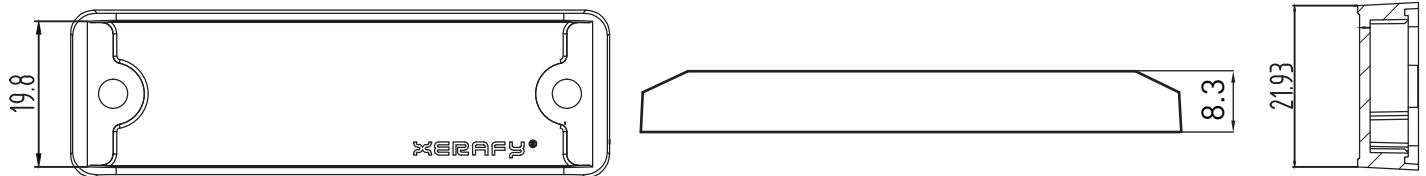
Radiation Pattern



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-810G
Compression strength	26.1 psi (180 kPa)
IP classification	IP68

Product Dimensions and Weight



Dimensions (mm)	73.3 x 22.8 x 8.3
tolerance	+/- 0.5
Dimensions (in)	2.88 x 0.9 x 0.33
tolerance	+/- 0.02
Weight	0.39 oz (11 g)

Order information

X0352-US100-H3	Versa Trak II US
X0352-EU100-H3	Versa Trak II EU