

Container 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	Impinj Monza R6-P
Memory configuration	128 EPC bits, 32-bit user memory, 48-bit TID; Max user memory 64-bit, 48 TID, 96 EPC bits
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
Lifetime in outdoor	Up to 10 years

Performance Characteristics

Read range on-metal (2W ERP) ²	Up to 65 ft (20 m)
Read range off-metal (2W ERP) ²	Up to 39 ft (15 m)
Polarization	Linear

Physical Specifications

Material	Anti-UV Industry Grade Polymer
Mounting system	Rivet hole, ø 1/4”M6, adhesive (optional) Cable tie, Metal Insert (optional)
Color	Cool gray

Environmental and Industry Compliance

RoHS&REACH	EU Directive 2011/65/EU, EC1907/2006
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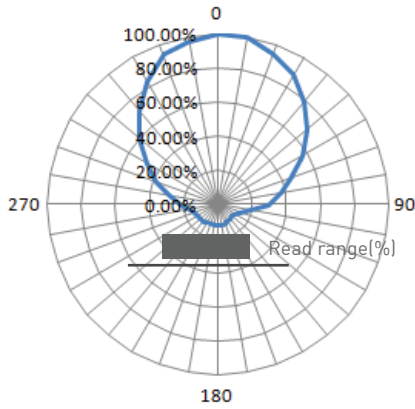


¹ The chip data retention is based on chip operating under general environment conditions.

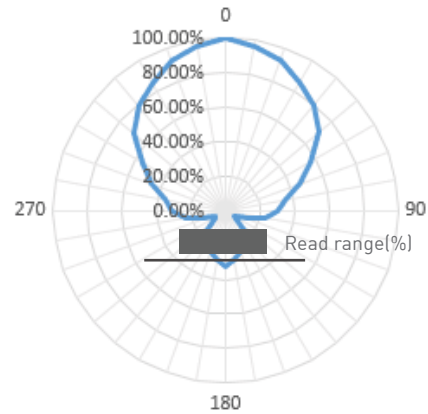
² Actual read range may vary based upon use case and antenna power.

Radiator

On-metal



Off-metal



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)	+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

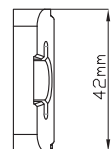
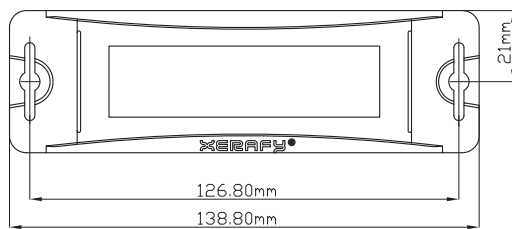
Compression strength

29 psi (200 kPa)

IP classification

IP68

Product Dimensions and Weight



Dimensions (mm)

138.8 x 42 x 12

tolerance

+/- 0.5

Dimensions (in)

5.46x 4.99 x 0.47

tolerance

+/- 0.02

Rivet hole diameter

0.137 in +/-0.008 (6.5 mm +/-0.2)

Weight

1.45 oz (41g +/- 1)

Order information

X0360-US100-R6P

Container Trak US

X0360-EU100-R6P

Container Trak EU