

Data 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	Impinj M4E ¹
Memory configuration	496-EPC bits; 128-bit user memory; 48-bit TID
Functionality	Read / write
Memory – expected read / write cycles	100,000 cycles at 77°F (25°C)
Data retention	Up to 50 years ²
Read rate	400 tags per second for 96-EPC bit number
Warranty (limited)	1 year

Performance Characteristics

Read range on-metal (2W ERP) ³	Up to 14.8 ft (4.5 m)
Read range off-metal (2W ERP) ³	Up to 8.2 ft (2.5 m)
Polarization	Linear

Physical Specifications

Material	Industry Grade Polymer
Mounting system	High performance adhesive; 0.1 in (2.6mm) tethering hole
Color	Cool Gray
Optional label	Standard or custom data in 1D or 2D matrix and human readable EPC code

Environmental and Industry Compliance

FSTC	FSTC compliant
RoHS	EU Directive 2011/65/EU



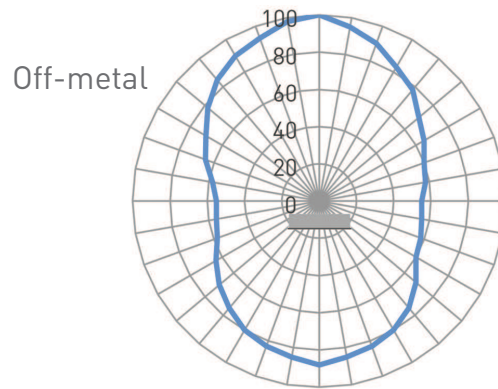
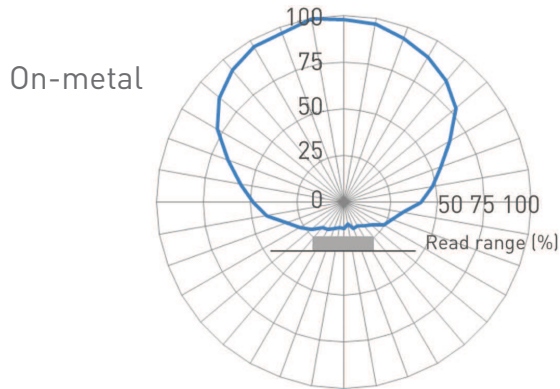
¹This product utilizes an Impinj M4E chip; each tag will have the exact same EPC number and a unique TID number. Xerafy will verify the Read/Write function of each chip memory before shipment.

²The chip data retention is based on chip operating under general environment conditions.

³Actual read range may vary based upon use case and antenna power.

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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	-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-810F

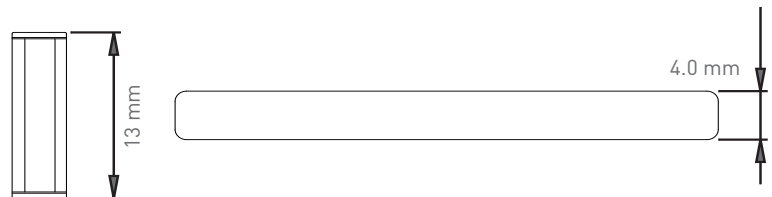
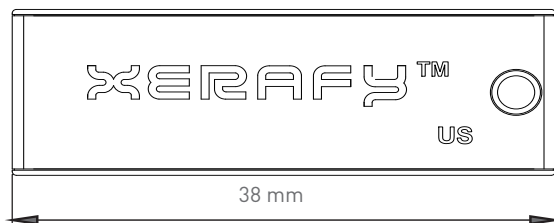
Compression strength

14.5 psi (100 kPa)

IP classification

IP54

Product Dimensions and Weight



Dimensions (mm)

38 x 13 x 4.0

tolerance

+/- 0.35

Dimensions (in)

1.50 x 0.51 x 0.16

tolerance

+/- 0.014

Weight

0.08 oz (2.3 g)

Order information

X0330-US011-M4

Data Trak II US

X0330-EU011-M4

Data Trak II EU