

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 6 C
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 2002/95/EC

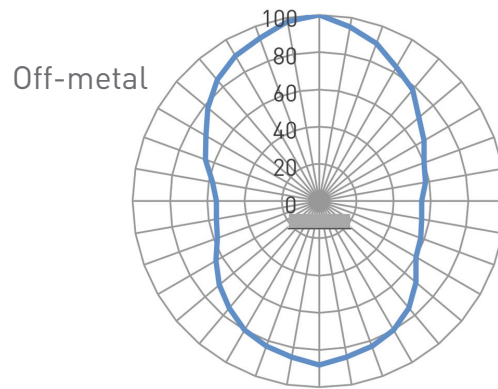
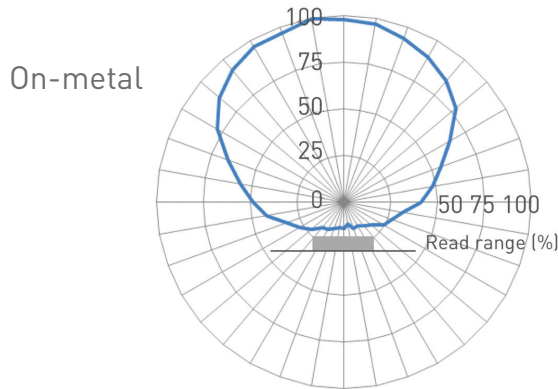


¹This product utilizes an Impinj M4E chip; each tag will have the exact same EPC number and a unique TID number. Xerafy will verify the Read/Write function of each chip memory before shipment.

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.

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

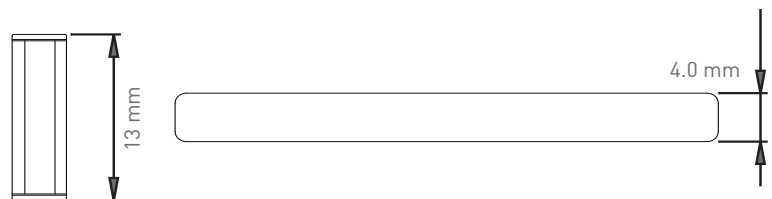
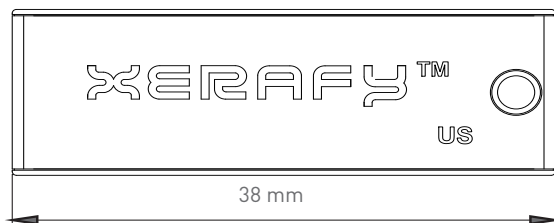
Compression strength

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