

## 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 <sup>1</sup>
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 <sup>2</sup>
Read rate	400 tags per second for 96-EPC bit number
Warranty (limited)	1 year

### Performance Characteristics

Read range on-metal (2W ERP) <sup>3</sup>	Up to 14.8 ft (4.5 m)
Read range off-metal (2W ERP) <sup>3</sup>	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 2002/95/EC



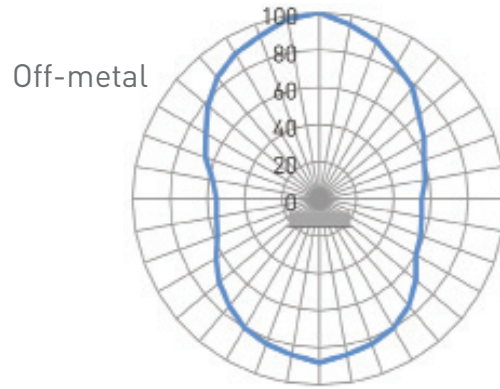
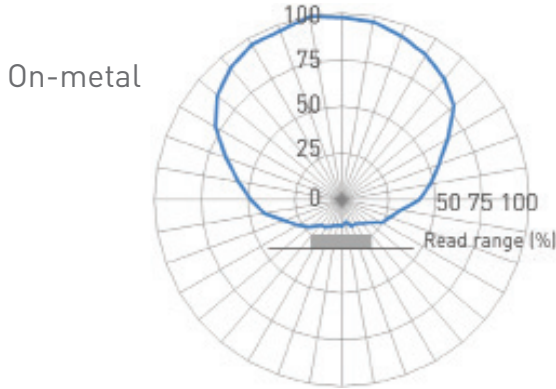
<sup>1</sup>This product utilizes an Impinj M4E chip; each tag will have the exact same EPC number and a unique TID number. Xerafy will verify the Read/Write function of each chip memory before shipment.

<sup>2</sup>The chip data retention is based on chip operating under general environment conditions.

<sup>3</sup>Actual read range may vary based upon use case and antenna power.

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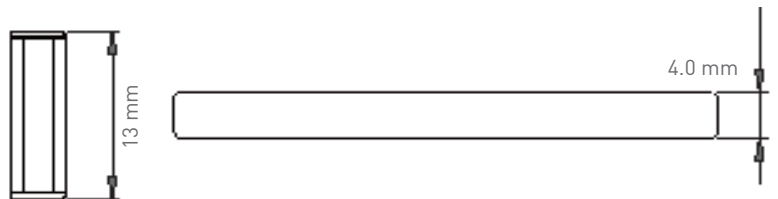
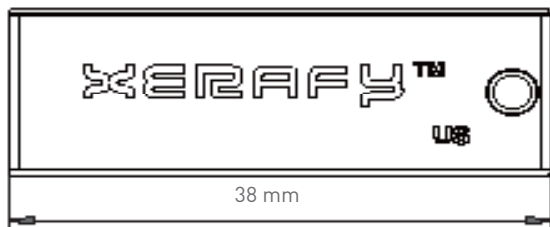
## Radiation Pattern



## 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