Primo1D
The E-Thread ™ Company

E-YARN S

E-Yarn S is a passive EPC Gen2 UHF RFID thread tag that can be embedded into a wide variety of materials and products to meet the challenges of Industry 4.0.
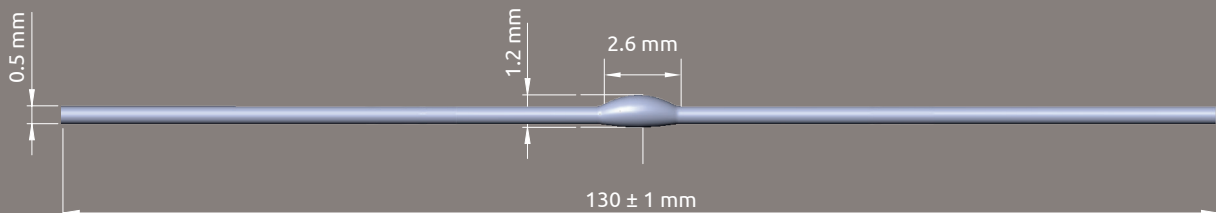
INDUSTRY 4.0

Our tag is used for a wide range of RFID applications, including but not limited to unique product identification, authentication, manufacturing and supply chain management, repair and maintenance up to recycling. The combination of an EPC/RFID unique digital identifier with an embedded, non-detachable and durable product generates its digital twin, reliably linking it to the cloud.
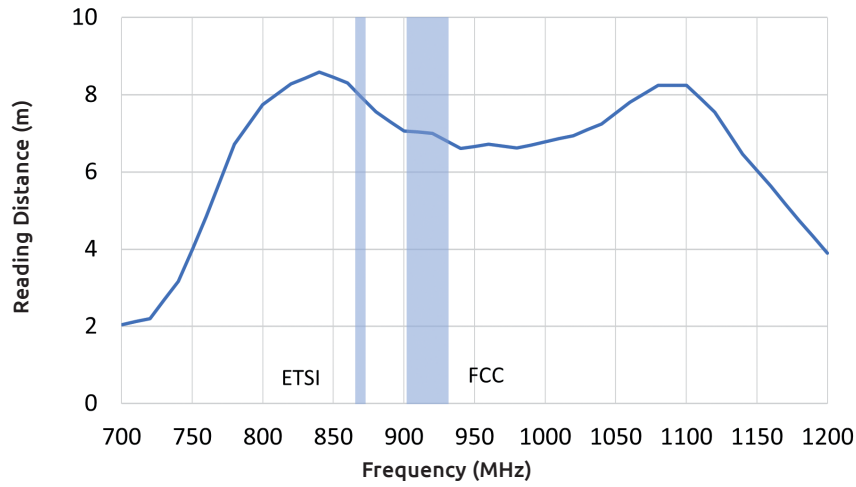
OVERVIEW

- **FREQUENCY BAND UHF**
  860 - 960 MHz

- **INTERNATIONAL STANDARD**
  ISO/IEC 18000-63 Type C

- **ROHS EU DIRECTIVE 2011/65/EU AND 2015/863**
  Compliant

- **OPERATING TEMPERATURE**
  -40 °C to 85 °C / Write operation at 65°C max

- **QUALITY**
  100% tested / Customized encoding

TECHNICAL FEATURES

0.5 mm   1.2 mm   2.6 mm   130 ± 1 mm

- **CHIP RFID**
  Impinj Monza R6-P - Monza 7 series

- **EPC MEMORY**
  96/128 bits

- **USER MEMORY**
  64/32/0 bits

- **TID**
  96 bits of serialized TID with 48 bits serial number

- **ANTENNA DESIGN**
  Straight

- **WEIGHT**
  0.04 g

- **OUTER COVER LAYER**
  Polyamide 66 - Polyester

- **COLOR**
  White

E-YARN **S**

FREQUENCY CURVE

Reading Distance (m) vs Frequency (MHz)

ETSI   FCC

This graph is indicative: performance in actual applications may vary. Functionality should be tested to ensure that the E-Thread™ tag meets the required performance and in the customer's specific environmental conditions. If necessary, Primo1D can provide support during this process. Primo1D reserves the right to modify, change, supplement or discontinue product offerings at any time without notice.

PACKAGING

PRODUCT TYPE		INDIVIDUAL TAG	SPOOL		
			CONTINUOUS	PRE-CUT	SEGMENTED CHAIN*
TEXTILE	STRIP	✔	✔	✔	
	COVERING	✔	✔		✔
TUBE (POLYMER)		✔**	✔		✔
COATING (RFL, POLYMER)		✔	✔		✔

* Segmented Chain: RFID tags arranged with a regular spacing on a continuous textile thread.
** Hermetic sealing

TIRE

CABLE PIPE

INTERNET OF THINGS

AGRI

EPI

AUTO

AERO

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