

# LinTRAK E1060-MRI-M850

HID's LinTRAK® ultra-high frequency RAIN® (UHF) radio-frequency identification (RFID) tags have been specifically designed to identify textile products. Thanks to their shape, durability and ease of fixation, they meet the tracking requirements of the laundry industry.

They withstand the rigors of repeated washings, including exposure to water, cleaning chemicals, sterilizing heat and water extraction pressure. The patented manufacturing process ensures cost-effective tags that deliver reliable, consistent performance throughout their entire life cycle.

LinTRAK tags are compliant with EPC global UHF Class 1 Gen 2 and ISO 18000-63 RAIN RFID standards. Each tag is encoded with a unique EPC code following GS1 standards (SGTIN96 format), which can be re-programmed to be compatible with any operating platform in accordance with privacy laws. Custom encoding services are available on demand.

MR conditional tags are undetectable by needle detector machines and validated by the world's most experienced MR-safety testing company (MRSTS) at 1.5 and 3.0 Tesla, which is the highest rating that can be applied for an RFID device. This means that a patient with this device (integrated to linen or gown) can be scanned safely in an MR system.

LinTRAK E1060-MRI-M850 features a soft and flexible design, ideal for integration into textile products. Measuring just 10 x 60 mm, LinTRAK E1060-MRI-M850 allows for a discreet insertion into fine linen items and garments, either sewn in a hem or fixed under a heat-seal label.

LinTRAK E1060-MRI-M850 offers outstanding read performance which, combined with low minimum activation power to support densely stacked conditions, make it an optimal choice for demanding textile services applications.



## KEY FEATURES:

- 10 x 60 mm
- Specifically designed to identify textile products
- Resistant to harsh laundry processes
- Small and discreet for effortless integration into textile items
- MR-conditional RFID tag for use in medical environments
- Embeds the latest generation IC for improved performance

## KEY TECHNOLOGY HIGHLIGHTS:

- UHF: RAIN EPC Class 1 Gen 2 and ISO 18000-63
- Water, chemical, heat and mechanical pressure resistance
- Guaranteed to withstand 200 commercial washing cycles or three years
- OEKO-TEX® STANDARD 100 Level 1 certified

	LinTRAK E1060-MRI-M850
<b>Base Model Number</b>	TL850E31
	<b>ELECTRONIC</b>
<b>Operating Frequency</b>	860-960 MHz (worldwide)
<b>Chip Type</b>	M850
<b>Memory</b>	96 bits EPC / 32 bits User
<b>Reading distance (2W reader ERP, free space)</b>	Up to 8m ETSI and FCC band free air read range forward.
	<b>PHYSICAL</b>
<b>Dimensions Height (+/- 1 mm) x Length (max)</b>	0.4 x 2.4 in (10 x 60 mm)
<b>Thickness</b>	0.078 in (2 mm) on chip location only, rest of tag is <0.008 in (0.2 mm)
<b>Mounting Method</b>	Sewn, inserted inside hem or pouch, or fixed under a heat-seal label
<b>Material</b>	<b>UHF module:</b> encapsulated chip, epoxy <b>Antenna:</b> stainless steel multithreads <b>Fabric label:</b> polyester and polyurethane as external layer
<b>Color</b>	White
	<b>WASHING</b>
<b>Max Temperature</b>	428°F (220°C) / 30 seconds
<b>Exposure</b>	2,5 bars (36,25 PSI)
<b>Tunnel Washer</b>	194°F (90°C) / 15 minutes
<b>Pre-Drying in Tumbler</b>	320° F (160° C) / 30 minutes
<b>Tunnel Finisher</b>	365° F (185° C) / 30 minutes
<b>Sterilization Process</b>	273°F (134°C) / 2 bars / 10 minutes
<b>Water Extractor Press</b>	60 bars (performance level measured and guaranteed in HID's laundry tests and conditions)
<b>Chemical Resistance</b>	All standard chemicals used in laundry process
	<b>OTHER</b>
<b>Standards</b>	UHF EPC Class 1 Gen 2 v2, ISO 18000-63
<b>Certifications</b>	OEKOTEX® STANDARD 100 Level 1 MR-Conditional EECC
<b>Packaging</b>	Bags of 200 pcs in boxes of 5000 pcs.
<b>Personalization</b>	Unique EPC code (unlocked). Custom EPC range & locking on request. Can be encoded. Laser-marked with TID.
<b>Warranty</b>	200 washing cycles (according to ISO 15797:2017) or 3 years or up to 100 sterilization cycles



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