

LinTRAK

E1560-MRI-M850

HID's LinTRAK® ultra-high frequency RAIN® (UHF) radio-frequency identification (RFID) tags have been specifically designed to identify textile products. These tags meet the rigid tracking requirements of the laundry industry, thanks to their shape, durability and ease of fixation — withstanding the rigors of repeated washing, 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 request.

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 into linen or gown) can be scanned safely in an MR system.

Compact at 15 x 60 mm, LinTRAK E1560-MRI-M850 features a 5 mm sewing zone above the chip, allowing easy, secure integration directly onto textiles.

Powered by the latest-generation RFID chip, the LinTRAK E1560-MRI-M850 offers exceptional read performance and reliability for accurate linen identification across the entire life cycle. Its low activation power ensures optimal performance, even in densely stacked conditions.

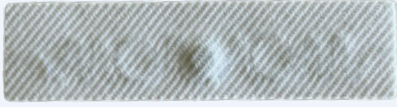


KEY FEATURES:

- 15 x 60 mm
- Specifically designed to identify textile products
- Resistant to harsh laundry processes
- Integrated sewing zone for secure and seamless attachment to textiles
- 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 3 years
- OEKO-TEX® STANDARD 100 Level 1 certified

	LinTRAK E1560-MRI-M850
	
Base Model Number	TL850E43
	ELECTRONIC
Operating Frequency	860-960 MHz (worldwide)
Chip Type	M850
Memory	96 bits EPC / 32 bits User
Reading distance (2W reader ERP, free space)	Up to 8m ETSI and FCC band free air read range forward.
	PHYSICAL
Dimensions Height (+/- 1 mm) x Length (max)	0.6 x 2.4 in (15 x 60 mm)
Thickness	0.078 in (2 mm) on chip location only, rest of tag is <0.008 in (0.2 mm)
Mounting Method	Directly sewn onto textile item thanks to the 5mm height sewing zone above the chip, or sewn into hem or pouch.
Material	UHF module: encapsulated chip, epoxy Antenna: stainless steel multithreads Fabric label: polyester and polyurethane as external layer
Color	White
	WASHING
Max Temperature	428°F (220°C) / 30 seconds
Exposure	2,5 bars (36,25 PSI)
Tunnel Washer	194°F (90°C) / 15 minutes
Pre-Drying in Tumbler	320° F (160° C) / 30 minutes
Tunnel Finisher	365° F (185° C) / 30 minutes
Sterilization Process	273°F (134°C) / 2 bars / 10 minutes
Water Extractor Press	60 bars (performance level measured and guaranteed in HID's laundry tests and conditions)
Chemical Resistance	All standard chemicals used in laundry process
	OTHER
Standards	UHF EPC Class 1 Gen 2 v2, ISO 18000-63
Certifications	OEKO-TEX® STANDARD 100 Level 1 MR-Conditional EECC
Packaging	Bags of 200 pcs in boxes of 5000 pcs.
Personalization	Unique EPC code (unlocked). Custom EPC range & locking on request. Can be encoded. Laser-marked with TID.
Warranty	200 washing cycles (according to ISO 15797:2017) or 3 years or up to 100 sterilization cycles



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2025-09-09-idt-ts-lintrak-e1560-mri-m850-ds-en

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