

# LinTRAK C15S-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 process securely positions the inner chip relative to the antenna, which guarantees consistent performance over the life of the tag.

LinTRAK tags are compliant with EPC global UHF Class 1 Gen 2 and ISO 1800-63 RAIN® RFID standards. This means that they are 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 provided.

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 C15S-MRI-M850 measures 15 x 52 mm and can be easily attached onto textile items thanks to a 5 mm empty zone above the chip to ease the sewing process.

LinTRAK C15S-MRI-M850 embeds the latest generation IC from IMPINJ implementing GEN2X for enhanced performance and increased security, making this RFID tag an optimal choice for demanding textile services applications.



## UHF TAGS FOR TEXTILE SERVICES

- 15 x 52 mm
- Specifically designed to identify textile products
- Resistant to harsh laundry processes
- Featuring a convenient 5mm sewing zone
- Utilizes the latest generation IC from IMPINJ implementing GEN2X for enhanced performance, increased security
- MR-conditional RFID tag for use in medical environments

## 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 C15S-MRI-M850



<b>Base Model Number</b>	TL850E10
	<b>ELECTRONIC</b>
<b>Operating Frequency</b>	860-960 MHz (worldwide)
<b>Chip Type</b>	Monza M850
<b>Memory</b>	96 bits EPC / 32 bits User
<b>Reading distance (2W reader ERP, free space)</b>	Up to 16 ft (5 m)
	<b>PHYSICAL</b>
<b>Dimensions</b>	0.6 x 2.04 in (15 x 52 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>	Directly sewn onto textile item thanks to the 5mm height sewing zone above the chip, or sewn into hem or pouch.
<b>Material</b>	UHF module: encapsulated chip, epoxy / Antenna: stainless steel multithreads Fabric label: polyester and polyurethane as external
<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 (93°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 Extrator Press</b>	60 bars (performance level measured and guarantied 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, ISO 18000-63
<b>Certifications</b>	OEKO-TEX® STANDARD 100 Level 1; MR-Conditional
<b>Box Size</b>	Bags of 200 pcs in boxes of 5000 pcs
<b>Personalization</b>	Unique EPC code (unlocked). Custom encoding possible Can be laser-marked with TID.
<b>Warranty</b>	200 washing cycles (according to ISO 15797:2017) or 3 years or up to 100 sterilization cycles

