

LinTag™



HIGH PERFORMANCE ROBUST AND FLEXIBLE TEXTILE TAGS

- **Easy application** – attach discreetly via hem, stitch or heat-seal – no pocket needed
- **High durability** – resistant to commercial laundry and dry cleaning cycles
- **Reliable performance** – consistent readability cycle after cycle

HID Global LinTag™ transponders apply securely and discreetly to textiles, enabling RFID tracking of high-volume, commercially laundered bed linens, towels and garments.

In contrast to garments like uniforms, linen like bed sheets or towels are washed more frequently and have to endure a tougher cleaning and drying process. Historically, this made using RFID to optimize inventory and accounting processes difficult or impossible to implement for linen. HID Global's LinTag robust design combats the industrial wash cycles for linens, withstanding the rigors of repeated washings, cleaning chemicals, sterilizing heat, and pressure. The patented design securely positions the inner chip relative to the antenna, which guarantees consistent performance over the life of the tag.

Encased in highly durable polyester fabric, LinTag units allow inconspicuous RFID tag placement into textiles. LinTag heat-seal units attach effortlessly via heat-transfer adhesive. LinTag Stitch units allow them to be directly stitched onto or seamed into fabric without the need for an extra

pouch or cover saving time and costs for application. LinTag Embed units can be sewn into a small hem or pocket to accommodate existing processes.

Industrial laundries and commercial cleaners are using RFID technology to improve inventory control, reduce labor requirements, and optimize the lifecycle management of individual textiles and garments. Real-time traceability delivers more accurate and timely billing, and enhances customer satisfaction.

Healthcare organizations are also tagging linens and gowns to monitor usage and inventories, automate distribution, and reduce shrinkage and staffing needs, relying on LinTag transponders to survive repeated cleaning and sterilization processes.

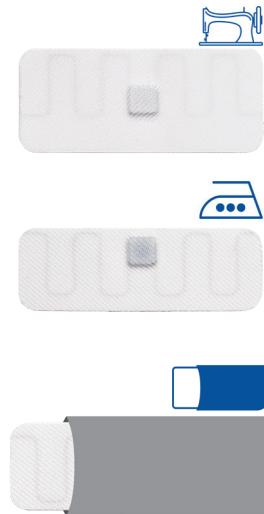
UHF LinTag units deliver 128 bit EPC, anti-collision functionality, fast data rate communication and read ranges of up to 23 ft (7 m).

TECHNOLOGY HIGHLIGHTS:

- UHF EPC Class 1 Gen 2 and ISO 18000-6C, 128 bit EPC
- Efficient application via hem, stitch or heat-seal adhesive (no pocket needed)
- Patented design ensures reliable performance over tag life
- High water, chemical, heat and pressure resistance
- Compatible with existing RAIN UHF Laundry solutions (tag mix)
- Fabric housing masks and protects RFID chip and antenna

APPLICATION AREAS:

- LAUNDRY
 - Banquet and restaurant linens
 - Hospitality bed linens and towels
 - Uniform and work wear management
- MEDICAL AND HEALTH
 - Gown and linen tracking
 - Supply and inventory management
 - Surgical counts



SPECIFICATIONS

| | LinTag™ 200 | | |
|---|---|---------------------------|-----------------------------|
| | Embed | Stitch | Heat-seal |
| Base Model Number | 6F8991-001 | 6F8990-001 | 6F8992-001 |
| ELECTRONIC | | | |
| Operating Frequency | 860-960 MHz (worldwide) | | |
| Chip Type | MONZA M5 | | |
| Memory | 128 bit EPC | | |
| Anti-Collision | Yes | | |
| Reading Distance (2W reader ERP, free space) | Up to 23 ft (7 m) | | |
| PHYSICAL | | | |
| Length × Width | 2.5 × 0.9 in (64 × 22 mm) | 2.5 × 1.1 in (64 × 28 mm) | 2.5 × 0.9 in (64 × 22 mm) |
| Thickness | 1.7 mm at module, 0.9 mm over rest of tag | | |
| Mounting Method | Sew into hem or pouch | Stitch onto fabric | Apply via heat-seal process |
| Affixes To | Linens and garments | | |
| Housing Material | Polyester | | |
| Color | White | | |
| Weight | 0.04 oz (1.5 g) | | |
| MECHANICAL RESISTANCE | | | |
| Vibration | IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h] | | |
| Shock | IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times] | | |
| Impact | IEC 62262-IK04 | | |
| Axial/Radial Force | 1000 N, 10 sec | | |
| Mechanical Tests | Bending (500 times 10 mm radius), twisting (500 times 180°), drop test (100 times 0.6 ft / 1.8 m) | | |
| Extractor Press | 60 bar | | |
| THERMAL (AIR) | | | |
| Storage | -40° to +185° F (-40° to +85° C) 1 × 1000 h | | |
| Operating | -40° to +185° F (-40° to +85° C) | | |
| Peak | 248° F (120° C) 100 h | | |
| Shock/Fatigue | +68° to +320° F (+20° to +160° C), 300 × 5 min with 30 sec transition | | |
| WASHING | | | |
| Withstands Exposure To | Water and all chemicals common to commercial laundry and dry cleaning | | |
| Washing Cycles | Up to 200 commercial wash cycles | | |
| Washing | 194° F (90° C) 15 min | | |
| Drying | 248° F (120° C) 20 mi | | |
| Tunnel Finisher | 365° F (185° C) 15 min | | |
| Ironing | + 428° F (220 ° C) 20 bars 10 x 10 sec., a thin tissue is placed between the iron and the tag | | |
| OTHER | | | |
| Standards | UHF EPC Class 1 Gen 2, ISO 18000-6C | | |
| Box Size | 1,000 pcs per bag; 5,000 pcs per carton | | |
| Warranty | 3 Years | | |



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