

# Nebula LA711

70 x 22 mm U9xe

The Printable RFID Laundry Tags in Roll are high-performance, industrial-grade RFID tags designed for efficient textile tracking and management in commercial laundries, hospitality, healthcare, and uniform services. Supplied in a continuous roll format, so compatible with automated label applicators and printers, they combine RFID functionality with visual identification (text, barcodes, QR codes) in a format optimized for high-volume, automated labeling workflows.

Containing a firm antenna and rugged packaged microchip that stores a unique and unalterable TID and programmable EPC, they enable flexible, automated, contactless, high-efficiency scanning via RFID readers for fast inventory, sorting, loss prevention, and lifespan tracking — without needing line-of-sight like barcodes.

Designed to withstand repeated washing, drying, ironing, and chemical exposure, ensuring reliable identification throughout the garment's lifecycle, they empower textile providers and user with greater flexibility, faster deployment, and lower total cost of ownership, while maintaining full traceability and operational efficiency. The printable roll format ensures that laundries can achieve high-volume labeling with minimal waste and maximum convenience.



## Applications

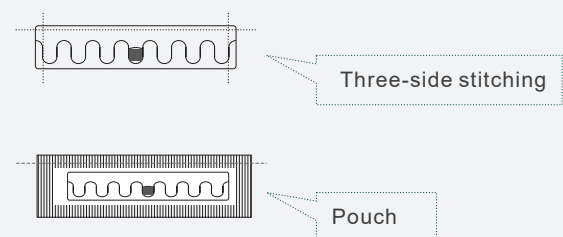
- ✓ Hospitality: Hotel linens, towels, robes, uniforms. Prevents loss, optimizes inventory, automates sorting.
- ✓ Healthcare: Hospital linen, patient gowns, surgical textiles. Tracks sterilization cycles, ensures compliance.
- ✓ Industrial / Corporate: Workwear, rental uniforms, cleanroom garments. Manages stock, usage cycles, and maintenance.
- ✓ Sports / Leisure Clubs: Towel rental, locker management.
- ✓ Laundry Service Providers: Automated sorting, billing, loss prevention.



## Highlight & Benefits

- Long, efficient and reliable bulk reading for fast inventory and sorting.
- Withstands industrial washing, drying, and ironing processes.
- High resistance to water, detergents, chemicals, pressure, etc.
- Flexible attachment options.
- Customization-design, printing, encoding available.
- Compatibility with MRI & needle detector.
- In roll type, printable and programmable via RFID printer and tagging by applicator.

## Installation



Technical Features

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Model                            | Nebula LA711                                                                |
| RFID Features                    |                                                                             |
| Air Interface Protocol           | EPC Class 1 Gen 2, ISO / IEC 18000-63 Type C                                |
| Frequency                        | 860-960 MHz                                                                 |
| Chip Type                        | NXP Ucode 9xe                                                               |
| Memory                           | User - N/A; EPC - 128 bits; TID - 96 bits                                   |
| Data Storage                     | > 20 years                                                                  |
| Re-write                         | 100,000 times                                                               |
| Read Range (2W ERP)              | FCC: > 7.5 m (24.6 ft)<br>ETSI: > 5.5 m (18.0 ft)                           |
| Physical Features                |                                                                             |
| Dimension                        | 70 x 22 mm (2.70 x 0.87 in)                                                 |
| Thickness                        | 1.00 mm (0.04 in) on chip location only,<br>Rest of tag is 0.65mm (0.03 in) |
| Weight                           | 0.50 g                                                                      |
| Material                         | Polyester                                                                   |
| Installation                     | Three-side stitching or pouch                                               |
| Durability Features              |                                                                             |
| Lifespan                         | 200 washing cycles or 3 years, whichever comes first                        |
| Washing Method                   | Laundry, Dry cleaning                                                       |
| Water Extraction Pressure        | 60 bars                                                                     |
| Chemical Resistance              | Detergent, Softener, Bleach (Oxygen / Chlorine), Alkali                     |
| Washing Temperature              | 90°C (194°F) / 15 minutes                                                   |
| Pre-drying in Tumble             | 180°C (356°F) / 30 minutes                                                  |
| Ironing Tempereature             | 185°C (365°F) / 10 seconds                                                  |
| Sterilization Tempereature       | 135°C (275°F) / 20 minutes                                                  |
| Other Features                   |                                                                             |
| Humidity / Temperature-Operating | -20~+85°C (-4~+185°F) / 8~95%RH                                             |
| Customization                    | Printing, Encoding, Design, etc.                                            |
| Package                          | 500 pcs / roll, 8 roll / box                                                |