



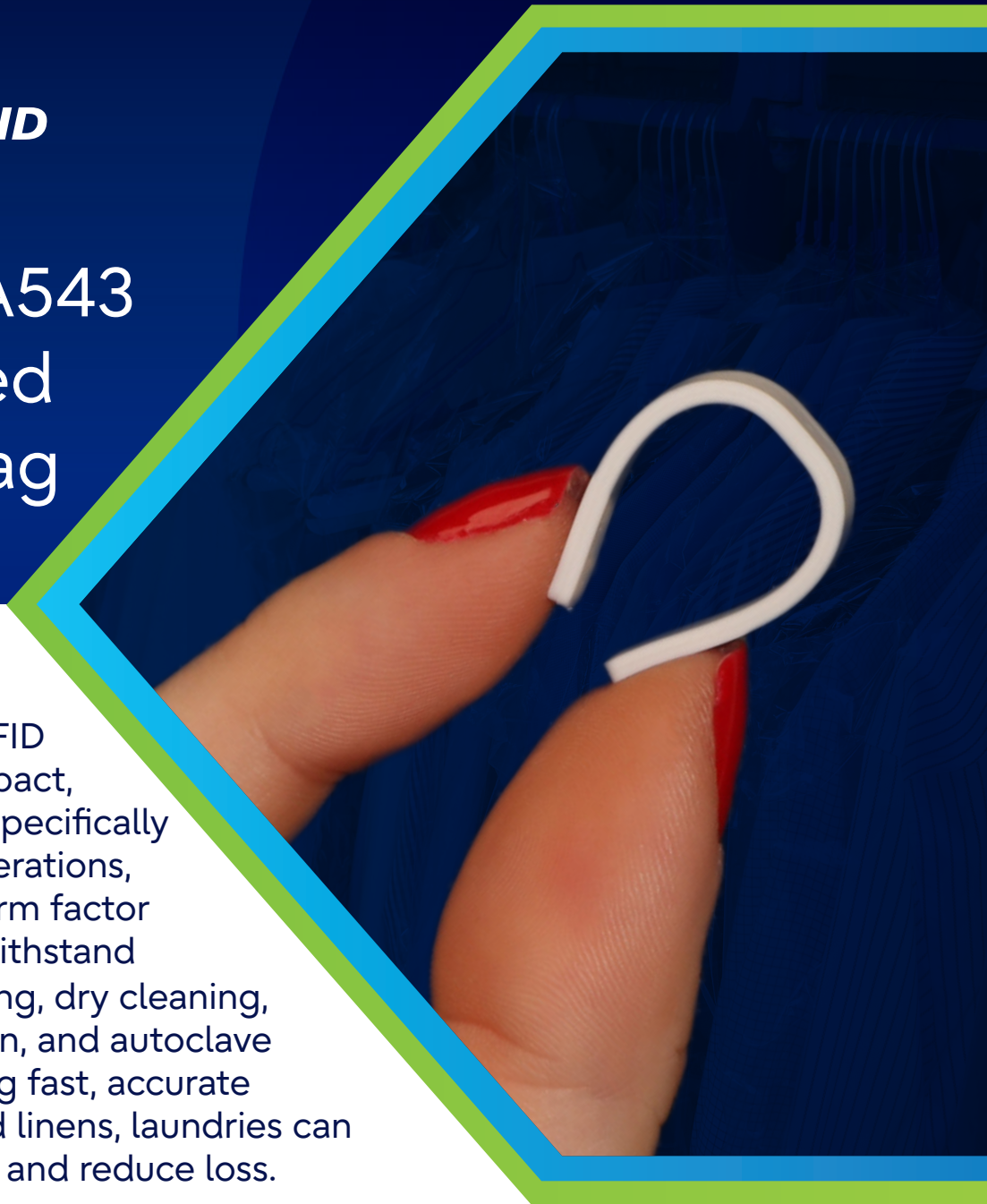
Data Sheet

Fujitsu WT-A543

Ultra-Rugged UHF RFID Tag

For precision tracking

The Fujitsu WT-A543 RFID UHF RFID Tag is a compact, flexible linen tag built specifically for industrial textile operations, combining a smaller form factor with the durability to withstand repeated washing, drying, dry cleaning, high-pressure extraction, and autoclave sterilization. By enabling fast, accurate identification of tagged linens, laundries can easily improve tracking and reduce loss.



A SMARTER WAY TO TRACK INVENTORY

The WT-A543 RFID Tag is built to help laundry operators gain greater control over linen inventory without adding complexity to day-to-day operations. Its compact, flexible construction make it well suited for all textile applications, while reliable

UHF RFID performance enables fast, automated identification of tagged items. By improving visibility into linen movement and inventory levels, laundries can optimize labor, streamline processes, and minimize losses.

Reliable, high-speed linen tracking for enhanced inventory management, reduced losses, and streamlined laundry operations.

When RFID tags have to survive the toughest parts of the laundry cycle, reliability matters. With the WT-A543 UHF RFID Tag, laundry operators can take the guesswork out of linen tracking and gain a clearer picture of inventory as items move through their operation. The result is a more efficient, accountable process that helps laundries accurately bill for losses and make better use of precious time and resources.

All data are results performed in our test condition according to Japan Industrial Standard JIS L 0217 - 102, 301, 401, 402. Your test result may vary.

**1: Verified with independent testing - nominal industrial laundry conditions*

**2: Conditions for dry cleaning: Up to 10 minutes/cycle for washing, and 30 minutes/cycle within 60 °C for drying*

**2: Last 32 bits are not specified. Modifying EPC area is not covered by product warranty*

**4: This test was conducted under Fujitsu Frontech's laboratory*

**5: When heat sealing the tags, please do not exceed above conditions*

Material and Design Specifications

Size & Weight	55 (W) x 7 (D) x 1.6 (H) mm, 0.8g
Temperature	Operating: -20 to 50 °C, 10 to 95% RH Storage: -40 to 55 °C, 8 to 95% RH
Read Range (Textile)	902-928 MHz: 4W eirp 250 cm (Typical), 2W erp: 220 cm (Typical) 865.6-867.7 MHz: 2W erp 200 cm (Typical)
Read Range (Rubber Mat)	902-928 MHz: 4W eirp 200 cm (Typical) 865.6-867.7 MHz: 2W erp: 220 cm (Typical)
Tagging	Directly sewing into seam of linen items; sewing with patch/pouch, heat sealing
Lifecycle	200 washing cycles or 3 years from shipping date, whichever comes first ^{*1}
Washing Method	Laundry (PERC and Petroleum based solvents) ^{*2}
Tag Type	Passive
EPC Number Area	128bit/ unlock (The first 96bit are pre-written by Fujitsu) ^{*3}
Heat Resistance	Drying: 85 °C (Up to 60 min.) or 120 °C (Up to 10 min.) Ironing: 200 °C (Up to 10 sec. with press cloth)
RFID Standard	ISO/IEC 18000-63 (EPC Gen2)
Chemical Resistance	Standard Detergent, Softener, Bleach (Oxygen/Chlorine), Alkali, Acetic/Peracetic Acid
Autoclave Sterilization	121 °C, 20 minutes, 80 cycles ^{*4}
RFID Standard	ISO/IEC 18000-63 (EPC Gen2)
MRI Safety Information	MR Conditional (Static magnetic field of 1.5T & 3T)
Water Extraction Pressure	Up to 60 bar
Heat Sealing Conditions (max) ^{*5}	Temp (Celsius): 225° Time (seconds): 30 Pressure (bar): 7

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