



Data Sheet

Fujitsu WT-A533HT

UHF RFID

Linen Tag

Take tracking further

The WT-A533HT High Temperature RFID Linen Tag is built for healthcare and laundry environments where accurate tracking, high-volume processing, and extreme conditions all come together, enabling operators to read hundreds of textile, linen, and garment assets in a single pass. With long, accurate read range, it helps make tracking faster, easier, and more reliable.



GREATER RANGE FOR GREATER CONTROL

The WT-A533HT gives laundry operators the speed and range to track hundreds of tagged items at once, with a read distance of more than eight feet and a new mechanical design optimized for flat linens. Its flexible, durable construction works

across linens, textiles, and garments while handling demanding laundry processes and high-pressure extraction up to 60 bar. Built for real-world operations, the WT-A533HT makes reliable RFID tracking easier to adopt at scale.

Long-range RFID built to deliver reliable tracking, greater efficiency, and better control across the entire laundry operation.

The WT-A533HT Linen Tag puts long-range RFID performance within reach for laundry operators who need more from their tracking technology. With the durability, flexibility, and versatility to support the most demanding laundry and healthcare environments, it delivers a smarter way to keep linen assets moving, accounted for, and under control.

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: Nominal industrial laundry conditions, 40 bar water extraction pressure*

**2: Conditions for dry cleaning: Up to 10min./cycle (Washing), More than 30min./cycle within 60 °C (Drying)*

**3: Tested in Fujitsu Frontech Laundry testing condition: 100 cycles at 60 bar with a simulated extractor press.*

**4: The tag has been tested for 10 times at the condition of JIS L 0856 Severe test.*

**5: 80 cycles or more depending on chamber conditions*

**6: Fujitsu provides no warranty nor maintains liability for failure due to laundry or dry-cleaning chemicals not verified.*

Material and Design Specifications

Size & Weight	55(W) x 10 (D) x 1.6 (H) mm, 1.05g
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; 2W erp 200 cm 865.6-867.7 MHz: 4W eirp 200 cm; 2W erp 200 cm
Read Range (Rubber Mat)	902-928 MHz: 4W eirp 200 cm; 2W erp 200 cm 865.6-867.7 MHz: 4W eirp 200 cm; 2W erp 200 cm
Tagging	Sewing, Heat-sealing, Pouch
Lifecycle	200 washing cycles/dry cleaning or 3 years from shipping date, whichever comes first ^{*1}
Washing Method	Laundry, Dry cleaning ^{*2} (Perchloroethylene, Hydrocarbon solvent)
Water Extraction Pressure	60 bar ^{*3}
EPC Number Area	128bit (first 96bit are pre-written by Fujitsu)
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)
MRI Safety Information	MR Conditional (Static magnetic field of 1.5T/3T)
Estimated Annual Failure Rate	Less than 0.5% excluding DOA (Excludes iscoloration, bending, distortion, etc. due to normal use)
Chemical Resistance	Detergent, Softener, Bleach (Oxygen/ Chlorine), Alkali ^{*4}
Autoclave Heat Sterilization	21°C, 15-20 minutes ^{*5} ; 135°C for 5 minutes ^{*6}

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