

# Data Sheet

## UHF RFID Linen Tag

### Fujitsu WT-A533/WT-A531/WT-A533HT

Fujitsu's ultra-rugged WT-A533/WT-A531/WT-A533HT linen tag was designed for businesses to accurately manage textile, linen and garment assets at an affordable cost with rapid ROI. The Fujitsu's RFID linen tags enable businesses to read hundreds of tagged items in a single pass. Inventory management can be performed accurately and easily by reading multiple tags simultaneously with the extended range and accuracy of UHF RFID technology. Fujitsu's advanced antenna technology allows for accurate reading of hundreds of items while reducing misreads of nearby tags. With the RFID linen tags, customers will greatly improve receiving, shipping, and tracking assets while keeping their costs low by improving workflow and efficiency.



#### Key Features

- UHF technology to read hundreds of tags simultaneously
- More than 8-foot reading distance
- Exceptional durability for washing, drying, dry cleaning and ironing
- Suitable for high-pressure extractors up to 60 bar
- Cost effective for easy adoption
- Flexible material ideal for textiles, linens, garments and more
- 100% non-magnetic construction suitable for hospital use
- Conforms to "ISO/IEC 18000-63 (formerly 18000-6C) and EPC Gen2"



# Fujitsu WT-A533/WT-A531/WT-A533HT Specifications

RFID Standard	ISO/IEC 18000-63 (EPC Gen2)
Regulations	RoHS: Conforms to RoHS regulations China RoHS: Conforms to Administrative Measure on the Control of Pollution Caused by Electronic Information Products
MRI Safety Information	MR Conditional (Static magnetic field of 1.5-T and 3-T)
Size & Weight	55(W) x 10 (D) x 1.6 (H) mm, 1.0g
EPC Number Area	WT-A533/WT-A533HT: 128bit/ unlocked (The first 96bit are pre-written by Fujitsu)*1 WT-A531: 128bit/ permanently locked (The first 96bit are pre-written by Fujitsu)*1
User Memory	NONE
Reading Range (Textile)	902-928 MHz: 4W eirp 250cm (Typical), 2W erp 220cm (Typical) 865.6-867.6 MHz: 2W erp 200cm (Typical)
Reading Range (Rubber Mat)	902-928 MHz: 4W eirp 200cm (Typical) 865.6-867.6 MHz: 2W erp 220cm (Typical)
Tagging	Sewing, Heat-sealing, Pouch
Estimated Lifetime	200 washing cycles/dry cleaning or 3 years from shipping date, whichever comes first *2
Washing Method	Laundry, Dry cleaning *3 (Perchloroethylene, Hydrocarbon solvent)
Water Extraction Pressure	60 bar *4
Chemical Resistance	Detergent, Softener, Bleach (Oxygen/Chlorine), Alkali *5
Autoclave Heat Sterilization	WT-A533/WT-A531: 121°C, 15-20 minutes *6 WT-A533HT: 135°C, 5 minutes *6
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)
Temperature/Humidity	Operating: -20 to 50°C, 10 to 95% RH Storage: -40 to 55°C, 8 to 95% RH

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

\*2: Nominal industrial laundry conditions, 40 bar water extraction pressure

\*3: Conditions for dry cleaning: Up to 10min./cycle (Washing), More than 30min./cycle within 60°C (Drying)

\*4: Tested in Fujitsu Frontech laundry testing condition: 100 cycles at 60 bar with a simulated extractor press

\*5: The tag has been tested for 10 times at the condition of JIS L 0856 Severe test

\*6: 80 cycles or more depending on chamber conditions



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