

# Data Sheet

## UHF RFID Garment Tag

### Fujitsu WT-A533G/WT-A531G

Fujitsu's latest UHF RFID garment tag WT-A533G/WT-A531G was designed for high-performance reading in rental garments, uniform and work wear applications. Designed with an incredibly thin form factor of just 0.6mm thick, the Fujitsu RFID garment tag can be easily attached to garments with heat seal labels and be virtually unnoticeable. The tag is built to withstand typical garment industrial laundry and dry-cleaning equipment and processes without losing performance. As with Fujitsu's linen tags, the garment tag uses advanced antenna technology that allows for reading hundreds of items while reducing misreads of nearby tags. Fujitsu's ultra-thin WT-A533G/WT-A531G RFID garment tag is the ideal solution for tracking and sorting in the rental garment, uniform and work wear industry.



#### Key Features

- Smaller form factor at just 0.6mm thick
- Virtually transparent when attached to garments
- Designed for easy attachment with heat seal labels
- Adhesive layer simplifies installation processes
- Advanced antenna design for exceptional read rates
- Cost effective for easy adoption
- High performance reads hundreds of tags simultaneously

With Fujitsu's innovative UHF RFID tag solutions, commercial and industrial laundries can greatly enhance asset tracking processes and improve staff efficiency when sorting and tracking garments. The WT-A533G/WT-A531G garment tag was purposefully designed to perform inventory management easily and accurately, reading multiple tags at once with extremely low error rates. Fujitsu's unique tag-on-roll solution along with the garment tag's ultra-thin design allow for simplified attachment to garments in bulk so that garment owners don't have to slow down operations to start using tags.



# Fujitsu WT-A533G/WT-A531G RFID Tag 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 9 (D) x 0.6 (H) mm, 0.4g
Tag Type	Passive
EPC Number Area	WT-A533G: 128bit/ unlocked (The first 96bit are pre-written by Fujitsu)*1 WT-A531G: 128bit/ permanently locked (The first 96bit are pre-written by Fujitsu)*1
User Memory	NONE
Reading Range (Air)	902-928 MHz: 4W eirp 190cm (Typical); 2W erp 170cm (Typical), 865.6-867.6 MHz: 2W erp 100cm (Typical)
Reading Range (Heat seal)	902-928 MHz: 4W eirp 230cm (Typical); 2W erp 200cm (Typical) 865.6-867.6 MHz: 2W erp 130cm (Typical)
Tagging	Heat sealing, seam insertion, pouch
Estimated Lifetime	100 washing cycles/dry cleaning or 3 years from shipping date without usage, whichever comes first*2
Washing Method	Laundry, Standard Detergent, Softener, Bleach (Oxygen/Chlorine), Alkali*3 Dry cleaning (PERC and petroleum based solvents)*4
Heat Resistance	Drying: 85°C (Up to 60 min.) or 120 °C (Up to 20 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: Verified with independent testing - nominal industrial laundry conditions

\*3: Conditions for washing: Conventional washers/dryers excluding water extraction press

\*4: Conditions for dry cleaning: Up to 10 minutes/cycle for washing, and 30 minutes/cycle up to 60°C for drying

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