

UHF LAUNDRYCHIP™ 301

Unsurpassed reading performance and sensitivity

FT301-ST / FT301-PA / FT301-POUCH



Product info

- Outstanding mechanical resistance ensures tag performance and endurance for reduced wear-and-tear
- Tested for over 200 cycles in real laundries
- Suitable for autoclave
- Best-in-class for confined field applications

Product Description

The 301 is the third generation UHF LaundryChip™ transponder for the textile services market.

These ISO 18000-6C compliant, UHF tags allow for high speed, bulk reading in industrial laundry applications at read distances of up to six meters (or 19 feet).

They are soft, flexible and thin in order to be applied quickly and easily in multiple ways - sewn, heat-sealed or pouched - according to your wash process needs.

The 301 was designed specifically to meet the rigors of high volume, high pressure wash workflows to help extend the life of your assets and have been tested in real-world laundries for over 200 cycles to ensure guaranteed tag performance and endurance.

UHF LAUNDRYCHIP™ 30I

FT30I-ST / FT30I-PA / FT30I-POUCH

Technical data

30I Patchable

FT30I-PA



30I Source Tagging

FT30I-ST



Tag Dimensions (L x W x H)	75 x 20 x 2.5 mm (2.95" x 0.79" x 0.09")	70 x 15 x 2.5 mm (2.75" x 0.59" x 0.09")
Tag Weight (approx.)	0.70 g	0.70 g
Tag Materials	50/50 polycotton or full polyester	
Tag Warranty	First of 200 wash cycles or 100 autoclave cycles or 3 years from ship date	
Tag Memory	96 or 128* bits EPC (UL version only)	
Read Distance	Up to 6 meters (up to 19 feet)	
Operating Power	Passive, operates through antenna's RF field	
Operating Frequency	865 - 928 MHz	
Typical washing cycle	Washing: +90°C (194°F), 15 minutes, 200 cycles Drying: +180°C (356°F), 3 minutes, 200 cycles Ironer: +200°C (392°F), 12 seconds, 10 seconds	
Autoclave	3.2 bar, RH 85%, 5 minutes at 134°C (273°F)	
Patching instructions	+204°C (399°F), 12 seconds, 0.5 kg/cm2	
Storage Temperature	-40°C to +120°C (-40°F to +248°F)	
Chemical Resistance	All Chemicals common to the washing process	
Compliance	ISO/IEC 18000-6C EPC Class 1 Gen 2	
Certifications	OEKO-TEX® Standard 100 product class II, MR Conditional (I.5T - 3T)	

Each transponder produced by Datamars is encoded with a unique 96 bits EPC following GS1 standards. The transponder code cannot be altered nor re-programmed. For customers willing to encode their own EPC, Datamars provides custom coding services or a re-programmable transponder version named FT301 UL.

Standard Tag Pouch	Material: 100% polyester Dimensions: 27 x 80 mm (1.06" x 3.15") Up to 4 colors embroidery Custom sizes available Minimum order quantities apply for customization
--------------------	---

UHF LAUNDRYCHIP™ 30I

FT30I-ST / FT30I-PA / FT30I-POUCH

Ordering information

FT301-ST	950 0200-220
FT301-ST UL	950 0200-227
FT301-PA	950 0200-222
FT301-PA UL	950 0200-229
FT301 in Pouch (generic)	950 0200-221
FT301 in Pouch (custom)	(upon request)