

UHF LAUNDRYCHIP[™] 40I

The best reading performance ever in a very small LaundryChip[™]!

FT40I-ST / FT40I-PA / FT40I-POUCH

Product Code: DAT012

Product info

- Small dimensions
- Maximum flexibility
- Best reading performance: ultra-high-density bulk reading.
- Stronger than ever: tested in real-world laundries and guaranteed for 200 washing cycles with water extractors up to 60 bar.
- ISO 18000-6C compliant
- Fully compatible with the 301 LaundryChip[™] family.
- Certifications: MR conditional and Oeko-Tex[®] certified.
- Available in 3 versions: source tagging (sewn), patchable (heat-sealable) and in pouch. Further option: laser markable with the EPC code.

Product Description

With excellent bulk-reading performance and the highest level of thermal and mechanical resistance, this new UHF generation transponder, with the thickness halved and the width reduced by 33% vs the 301, can now be inserted into the narrow hems of tiny flat linen items as well as into the finest garments (making it widely suitable for private wear). The extraordinary no-wear feeling and unnoticeable look greatly improves the comfort of wearing a transponder.





Technical data

40I Source Tagging / in Pouch FT401-ST / FT40I-Pouch



40I Patchable FT40I-PA



Tag Dimensions (L x W x H)	70 x 10 x 1.3 mm	70 x 15 x 1.3 mm
Tag Weight (approx.)	0.30 g	0.40 g
Tag Material	50/50 polycotton	
Tag Warranty	First of 200 wash cycles or 100 autoclave cycles or 3 years from ship date	
Tag Memory	96 bits EPC	
Data retention	min 50 years	
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 Drying: +180°C (356°F), 3 minutes Ironer: +200°C (392°F), 12 seconds Water Extractor: 60 bar, 80 seconds	
Autoclave	Air removal: +100°C (+212°F), 5 minutes, 0.1 bar Sterilizing: +134°C (+273°F), 10 minutes, 3.25 bar Drying: +45°C (+113°F), 15 minutes, 0.2 bar	
Patching instructions	+204°C (399°F), 12 seconds, 0.5 kg/cm ²	
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 FT401 UL.



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Ordering information

FT401-ST	950 0200-282	ST = source tagging (to be sewn into textile hem)
FT401-ST UL	950 0200-299	ST UL = source tagging re-programmable
FT401-ST X	950 0200-286	ST X = source tagging with EPC code laser-marked
FT401-ST UL X	950 0200-329	ST UL X = source tagging re-programmable with EPC code laser-marked
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FT401-PA	950 0200-287	PA = patchable (to be heat-sealed on textile)
FT401-PA UL	950 0200-298	PA UL = patchable re-programmable
FT401-PA X	950 0200-288	PA X = patchable with EPC code laser-marked
FT401-PA UL X	950 0200-333	PA UL X = patchable re-programmable with EPC code laser-marked
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FT401 in pouch (white 22x80)	950 0200-360	plain white pouch
FT401 in pouch (RFID 22x80)	950 0200-363	pouch with generic RFID logo embroidered
FT401 UL in pouch (RFID 22x80)	950 0200-374	pouch with generic RFID logo embroidered
FT401 in Pouch (custom)	(upon request)	with customer's logo embroidered