



Retail Optimized Inlays & Tags

Operating in an increasingly competitive environment, retailers are well advised to take full advantage of RFID's benefits. Embedding intelligence in and enabling visibility of every item of merchandise is the precondition for inventory accuracy, loss prevention, omni-channel readiness and, ultimately, enhanced consumer experiences both at and beyond the point of sale.

All RFID is not equal. The technology's benefits depend on the quality of the inlays used. That is why retailers should opt for RFID tags and inlays that meet performance levels defined by the University of Auburn ARC program and GS1® TIPP.

How ARC Works

Auburn Radio Compliance Center (ARC) is a test system and database that stores comprehensive performance data for currently available RFID tags. ARC has been working with retailers to translate RFID use cases into specific levels of performance in the ARC test environment, providing global benchmarks for RFID performance. Lists of tags that meet the required levels of performance can quickly be generated, or, for more difficult-to-read products, proper tagging profiles can be created.

What TIPP Does

GS1 is a global non-profit organization that develops and maintains the most widely used supply chain standards system. GS1 developed its Tagged Item Performance Protocol (TIPP) in response to a need for common definitions and methods for specifying and verifying the performance of RFID-tagged items in retail use cases. GS1 TIPP provides, among other things, a standard set of performance grades for UHF Class 1 Gen 2 (RAIN) tagged items, and a repeatable test procedure to validate the grade of a tagged item.

Overview

Operating Frequency
860 - 960 MHz

International Standards

- ▶ ISO 18000-6C
- ▶ EPC Class 1 Gen 2

Application Areas





- ▶ Merchandise visibility
- ▶ Brand protection
- ▶ Inventory accuracy
- ▶ Loss prevention
- ▶ Omni-channel readiness
- ▶ Enhanced customer experiences

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Why Smartrac is the Right Choice

As the undisputed RFID pacesetter, Smartrac has always been extremely committed to the retail market and was one of the first members and supporters of the ARC initiative. Today, Smartrac provides one of the largest portfolios of ARC-certified and TIPP-graded inlays and tags.

Choose what's right for you!

Antenna	Product Name	Size (mm)	IC	ARC Category												GS1	TIPP	Grades	
				A	B	C	D	F	G	K	I	M	N	Q	M10B S10B				M15B S15B
	ACCESSORY	30 × 15	Impinj MR6													✓			
	BELT	70 × 14	NXP G2iL	✓	✓		✓		✓				✓	✓			✓	✓	✓
	BELT	70 × 14	Impinj M5	✓	✓	✓	✓	✓	✓				✓	✓	✓		✓	✓	✓
	BELT	70 × 10	Impinj MR6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	BELT	70 × 10	NXP UCODE7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	BELT	70 × 14	NXP UCODE8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	MINIWEB ETSI	42 × 16	Impinj MR6										✓		✓				
	MINIWEB FCC	46 × 16	NXP UCODE7		✓	✓		✓		✓							✓	✓	✓
	MINIWEB FCC	42 × 16	Impinj MR6	✓	✓		✓		✓				✓	✓			✓	✓	✓
	SHORTDIPOLE	93 × 11	Impinj M5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	SHORTDIPOLE*	92 × 11	NXP UCODE7														✓	✓	✓
	WEB	50 × 30	Impinj M5	✓	✓		✓	✓	✓				✓	✓			✓	✓	✓
	WEB	50 × 30	Impinj MR6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	WEB	50 × 30	NXP UCODE7		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	WEB LITE	46 × 15	Impinj M5										✓		✓		✓	✓	✓

Additional memory, protocol and product configurations are available upon request. Note: Pictures are for illustration only and are not to scale.

For detailed product information, please visit our product selector: smartrac-group.com/product-selector

* ShortDipole with NXP UCODE7 tested for GS1 TIPP, only.

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