

Product Bulletin

Tag-it™ HF-I Plus Transponder Inlays

Description

Texas Instruments' Tag-it HF-I Plus transponder inlays consist of 13.56-MHz high-frequency (HF) transponders that are compliant with the ISO/IEC 15693 and ISO/IEC 18000-3 global, open standards. These products offer a user-accessible memory of 2K bits, organized in 64 blocks and an optimized command set, available in six different antenna shapes with frequency offset for integration into paper, PVC or other substrates.

Tag-it HF-I Plus transponder inlays are manufactured with TI's patented laser-tuning process to provide consistent read performance. Prior to delivery, the transponders undergo complete functional and parametric testing in order to provide the high quality that customers have come to expect from TI.

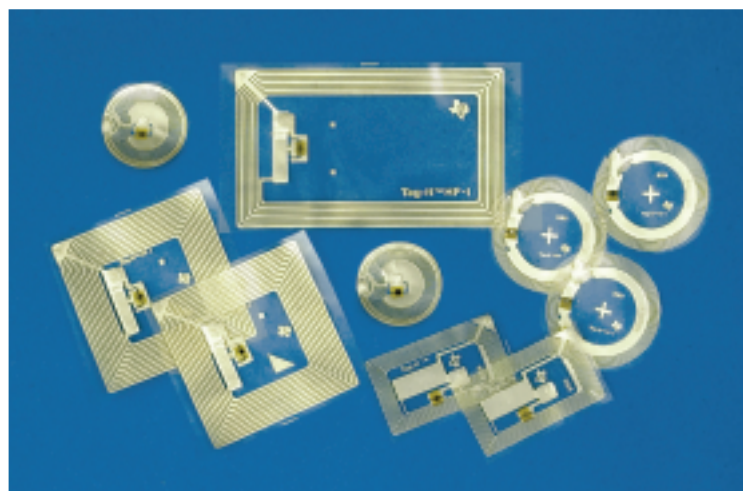
The Tag-it HF-I Plus transponder inlays are well suited for a variety of applications including, but not limited to, product authentication, library applications, supply chain management, asset management and ticketing/stored value applications.

Key Features

- ISO/IEC 15693 -2,-3; ISO/IEC18000-3
- 2K-bit user memory, 64x32 bit
- User and factory lock per block
- Application Family Identifier (AFI)
- Data Storage Format Identifier (DSFID)
- Combined Inventory Read Block

Tag-it™ HF-I Plus Product Specifications

Supported Standards	ISO/IEC 15693-2, -3; ISO/IEC18000-3
Recommended Operating frequency	13.56 MHz
Factory programmed Read Only Number	64 bits
Memory (user programmable)	2K bits organized in 64 x 32-bit blocks
Typical programming cycles (at +25°C)	100,000
Data retention time (at +55°C)	>10 years
Delivery	Single row tape with 48-mm foil width wound on cardboard reel



Tag-it™ HF-I Plus transponder inlays are available in a variety of package options, including square, circular and rectangular (regular and mini).

Tag-it™ HF-I Plus Inlay Shapes

Part Number	RI-I11-112A	RI-I11-112B	RI-I02-112A	RI-I02-112B	RI-I03-112A	RI-I15-112B	RI-I16-112A	RI-I17-112A
Antenna size (mm)	45 x 45	45 x 45	45 x 76	45 x 76	22.5 x 38	34 x 65	Ø 24.2	Ø 32.5
Foil pitch (mm)	50.8 +0.1 /-0.4 (2in)	50.8 +0.1 /-0.4 (2in)	96 +0.1/ -0.4 (~3.78 in)	96 +0.1/ -0.4 (~3.78 in)	48 +0.1 /-0.4 (~1.89 in)	101.6 +0.1 /-0.4 (4in)	50.8 +0.1 /-0.4 (2in)	50.8 +0.1 /-0.4 (2in)
Frequency Offset for lamination material	Paper	PVC	Paper	PVC	Paper/PVC	PVC	Paper/PVC	Paper/PVC

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: **<http://www.ti-rfid.com>**

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TI Worldwide Technical Support

Internet

TI RFID Product Information Center Homepage

www.ti.com/rfid

US and Canada Product Information Center

Phone: 800-962-7343

Fax: 214-567-7343

Business Hours (Central Standard Time):

Mon. 8:00 am - 5:00 pm

Tues. 10:00 am - 5:00 pm

Wed. 8:00 am - 5:00 pm

Thurs. 10:00 am - 5:00 pm

Fri. 8:00 am - 5:00 pm

E-mail: rfidsupport@ti.com

(Use this email address for follow-up support or questions. For first time inquiries, use the Help Form located at www.ti.com/rfid/docs/customer/helpform.shtml.)

Texas Instruments Radio Frequency Identification Systems

6550 Chase Oaks Blvd., MS 8470

Plano, Texas 75023

USA

European Product Information Center

Country	Phone
Belgium (English)	+32 (0)2 7455455
France (English)	+33 4 93 22 22 00
Germany	+49 (0)8161 80 2200
Italy	+39 (0)39 6568 210
Netherlands (English)	+31 (0)546 879 222
Spain	+34 902 19 73 96
Sweden (English)	+46 (0)8 58755527
UK	+44 (0)1604 88 4088

Fax:

All Languages — +49 (0) 8161 80 2045

Business Hours (Central European Time):

Mon. 8:30 am - 17:30 pm

Tues. 8:30 am - 17:30 pm

Wed. 8:30 am - 17:30 pm

Thurs. 8:30 am - 17:30 pm

Fri. 9:00 am - 16:00 pm

E-mail: e-rfidsupport@ti.com

Texas Instruments Radio Frequency Identification Systems – European Product Information Center

Deutschland GmbH

Haggertystrasse 1D-85350 Freising

Germany

International Product Information Center

Phone: +1 972-575-4364 (English)

Fax: 214-567-2492

Business Hours (Central Standard Time):

Monday - Friday 8:00 am - 5:00 pm

E-mail: rfidsupport@ti.com

Texas Instruments Radio Frequency Identification Systems

6550 Chase Oaks Blvd., MS 8470

Plano, Texas 75023

USA

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