Product Bulletin

Tag-it™ HF-I Pro

Transponder Inlays

Description

Texas Instruments' Tag-it HF-I Pro 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 256 bits, organized in eight blocks, and an extended command set including Password Protect Write available in five different antenna shapes with frequency offset for integration into paper, PVC or other substrates.

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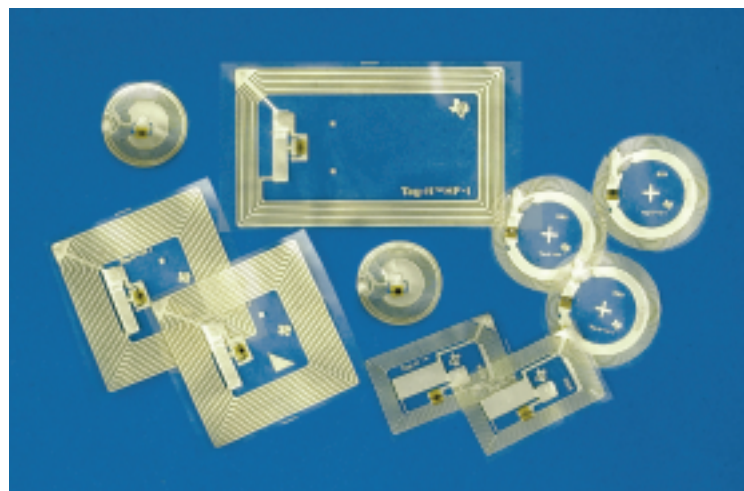
The Tag-it HF-I Pro transponder inlays are well suited for a variety of applications including, but not limited to, product authentication, library applications, supply chain management, asset management and ticketing/stored value applications.

Tag-it™ HF-I Pro 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)	256 bits organized in 8x32-bit blocks
Typical programming cycles (at +25°C)	100,000
Data retention time (at +55°C)	>10 years
Delivery	Single row tape wound on cardboard reel

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

Tag-it™ HF-I Pro Inlays Shapes

Part Number	RI-I11-114A-S1	RI-I11-114B-S1	RI-I02-114A-S1	RI-I02-114B-S1	RI-I03-114-S1	RI-I16-114-S1	RI-I17-114-S1
Available Memory	256 bits organized in 8 x 32-bit blocks						
Foil width (mm)	48 mm ± 0.5 mm						
Antenna size (mm)	45 x 45	45 x 45	45 x 76	45 x 76	22.5 x 38	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)	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	Paper/PVC	Paper/PVC
Delivery	Single row tape wound on cardboard reel						

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**

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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