



FERROX «TAG»

FXT on Metal Screw Box



SMART ON METAL



SMART ON LIQUID



SMART AT SPEED

RFID

(13.56 MHz)

FXT on metal screw box

Ferroxtag is a new family of RFID (Radio Frequency IDentification) tags suitable for operation attached to metallic items, such as totes, barrels, gas cylinders and industrial equipment. Operation frequency is 13.56 MHz. Ferroxtag's key feature is the direction of the field activating the device: it is not perpendicular to the identified item but parallel to it;

this means that the performance is almost independent of the material of the item identified. No need to worry about electro-magnetic reflection on metals.

The Ferroxtag core is an outstanding high magnetic permeability ferrite material that enhances the performance of the winding, thus reducing the dimensions of the coil.

Product description

Ferroxtag on Metal Screw Box is a High Frequency (13.56 MHz) RFID tag optimized for identification of metallic items. It can be screwed to the item and/or stuck on it with the bottom side adhesive tape.

Supports ISO15693 and ISO18000-3 air interface, being the reading range 30 cm on metal.

Overall dimensions are 25 x 12.5 x 5 mm, including the holes for screws.



Mechanical properties	
Operating temperature	-25°C to 130° C
Dimensions	25 x 12.5 x 5 mm
Weight	2.5 grams
Case material	POLYAMIDE 66 UL94-V0 compliant sealed with epoxy resin
Degree of protection	IP68
Colors	Black, blue, brown, beige
Clamping to items	Screws, glue, double sided adhesive tape

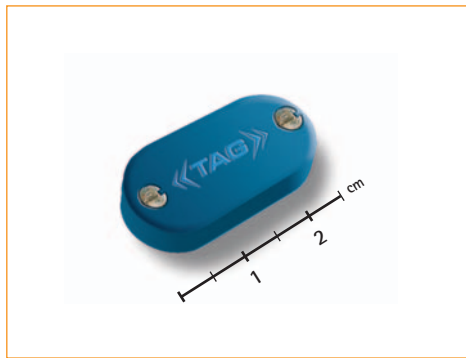
Ferroxtag mechanical properties make this product ideal for metal container and metallic items identification.

The encapsulation protects the device against impacts and harsh environments, making it suitable for industrial applications.

Tag installation

It is recommended to install the tag on a corner or in the closest position to the reader antenna. Optimal performance is achieved by orientating the device towards the reader as shown in the figure.

The package protects the electronics from harsh conditions, like extreme humidity, and maximum continued temperatures of 130°C, and peaks at 250°C for short periods.



Functional properties	
Operating frequency	13.56 MHz (ISM, licence free)
Air interface	ISO15693, ISO18000-3
Unique identifier	8 bytes
EEPROM memory	1024 bits, 32 blocks x 4 bytes
Anticollision supported	Yes
Data transfer	Up to 53 kbits/sec
Reading range on metal	30 cm (typ for 4 watts reader)

Ferroxtag is ISO15693 compliant, so it can be read and written with most common HF readers.

The outstanding reading range in such a small package combined with the ability to work around metals makes Ferroxtag an ideal alternative for both low and high frequency tags.

FERROXCUBE – your global partner

Australia: Contact Ferroxcube Taiwan
Tel: +886 3 5637336, Fax: +886 3 5637337

Austria: Contact Ferroxcube Germany
Tel: +49 (040) 527 28 305, Fax: +49 (040) 527 28 306

Benelux: Contact Ferroxcube Germany
Tel: +49 (040) 527 28 302, Fax: +49 (040) 527 28 306

Bosnia: Contact Ferroxcube Italy
Tel: +39 02 241131 1, Fax: +39 02 241131 11

Brazil: Richardson Electronics, Sao Paulo
Tel: +55 11 3845 6199, Fax: +55 11 3845 6199
Richardson Electronics, Rio de Janeiro
Tel: +55 21 521 4004, Fax: +55 21 521 5193

Bulgaria: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Canada east: Contact Ferroxcube USA
Tel: +1 978 579 7932, Fax: +1 978 579 9457

Canada west: Contact Ferroxcube USA
Tel: +1 619 207 0061, Fax: +1 619 207 0062

China: Ferroxcube South of China
Tel: +86 769 7382420, Fax: +86 769 7339561
Ferroxcube Suzhou
Tel: +86 512 68095048, Fax: +86 512 68097128

Colombia: Richardson Electronics
Tel: +57 1 636 1028, Fax: +57 1 636 1005

Croatia: Contact Ferroxcube Italy
Tel: +39 02 241131 1, Fax: +39 02 241131 11

Czech Republic: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Denmark: Contact Ferroxcube Sweden
Tel: +46 18 500 240, Fax: +46 18 500 250

Estonia: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Finland: Contact Ferroxcube Sweden
Tel: +46 18 500 240, Fax: +46 18 500 250

France: Ferroxcube France, NANTERRE
Tel: +33 (01) 5551 8422, Fax: +33 (01) 5551 8423

Germany: Ferroxcube Germany, HAMBURG
Tel: +49 (040) 527 28 302, Fax: +49 (040) 527 28 306

Greece: Contact Ferroxcube Italy
Tel: +39 02 241131 1, Fax: +39 02 241131 11

Hungary: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Indonesia: Contact Ferroxcube Singapore
Tel: +65 6244 7815, Fax: +65 6449 0446

Ireland: Contact Ferroxcube UK
Tel: +44 1706 830723, Fax: +44 1706 222638

Israel: Arrow/Rapac Ltd., PETACH TIKVA
Tel: +972 3 9203480, Fax: +972 3 9203443

Italy: Ferroxcube Italy, SESTO S. GIOVANNI (MI)
Tel: +39 02 241131 1, Fax: +39 02 241131 11

Korea: Contact Ferroxcube Taiwan
Tel: +886 3 5637336, Fax: +886 3 5637337

Latvia: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Lithuania: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Malaysia: Contact Ferroxcube Singapore
Tel: +65 6244 7815, Fax: +65 6449 0446

Mexico (excl. Baja): R.V. Componentes, Guadaluajara, MX
Tel: +52 33 3641 9595, Fax: +52 33 3641 9898

Mexico (Baja): Contact Ferroxcube USA
Tel: +1 619 207 0061, Fax: +1 619 207 0062

Moldova: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Montenegro: Contact Ferroxcube Italy
Tel: +39 02 241131 1, Fax: +39 02 241131 11

New Zealand: Contact Ferroxcube Taiwan
Tel: +886 3 5637336, Fax: +886 3 5637337

Norway: Contact Ferroxcube Sweden
Tel: +46 18 500 240, Fax: +46 18 500 250

Philippines: Contact Ferroxcube Singapore
Tel: +65 6244 7815, Fax: +65 6449 0446

Poland: Ferroxcube Polska, SKIERNIEWICE
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Portugal: Contact Hispano Ferritas, Spain
Tel: +34 (949) 247 153, Fax: +34 (949) 247 156

Romania: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Russia: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Serbia: Contact Ferroxcube Italy
Tel: +39 02 241131 1, Fax: +39 02 241131 11

Singapore: Ferroxcube Singapore, SINGAPORE
Tel: +65 6244 7815, Fax: +65 6449 0446

Slovak Republic: Contact Ferroxcube Poland
Tel: +48 46 834 00 07, Fax: +48 46 834 00 35

Slovenia: Contact Ferroxcube Italy
Tel: +39 02 241131 1, Fax: +39 02 241131 11

South-Africa: Contact Ferroxcube UK
Tel: +44 1706 830723, Fax: +44 1706 222638

Spain: Hispano Ferritas, GUADALAJARA
Tel: +34 (949) 247 153, Fax: +34 (949) 247 156

Sweden: Ferroxcube Sweden, UPPSALA
Tel: +46 18 500 240, Fax: +46 18 500 250

Switzerland: Contact Ferroxcube Germany
Tel: +49 (040) 527 28 305, Fax: +49 (040) 527 28 306

Taiwan: Ferroxcube Taiwan, HSINCHU
Tel: +886 3 5637336, Fax: +886 3 5637337

Turkey: Contact Ferroxcube Italy
Tel: +39 02 241131 1, Fax: +39 02 241131 11

United Kingdom: Ferroxcube UK, CROYDON
Tel: +44 870 2418759, Fax: +44 870 2418761

United States: Ferroxcube USA, EL PASO (TX)
Tel: +1 915 599 2513/2328, Fax: +1 915 599 2555

For all other countries apply to closest regional sales office:

• HAMBURG, Germany
Tel: +49 (040) 527 28 302, Fax: +49 (040) 527 28 306
e-mail: saleseurope@ferroxcube.com

• EL PASO (TX), USA
Tel: +1 915 599 2513/2328, Fax: +1 915 599 2555
e-mail: salesusa@ferroxcube.com

• HSINCHU, Taiwan
Tel: +886 3 5637336, Fax: +886 3 5637337
e-mail: salesasia@ferroxcube.com

© Ferroxcube International Holding B.V. 2007

All rights are reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent- or other industrial or intellectual property rights.

Visit our web-site for the latest information on new products, application info as well as updated phone- and fax numbers

Internet: www.ferroxcube.com
www.ferroxtag.com

Printed in Spain 9930 030 00051

Date of Release: January 2008

www.ferroxcube.com

www.ferroxtag.com



FERROX <<TAG>>