



## FXT1.1.3-SLI-XT

code: 4330 034 10301

# 13.56 MHz SMALL ENCAPSULATED FERROXTAG WITH ADHESIVE TAPE

## FEATURES

- ISO/IEC 15693; ISO/IEC 18000-3 Compliant
- 13.56 MHz Operating Frequency
- 1024 Bits User Memory in 32 blocks x 4 bytes
- Unique Identifier 8 bytes
- Fast Simultaneous Identification (Anticollision)
- Data transfer up to 53kbits/sec

## APPLICATIONS

- Non metallic items identification
- Industrial applications
- Asset Tracking
- Wood pallets
- Plastic boxes
- Thanks to the adhesive tape, this tag is specially recommended for applications where the tag has to be quickly attached to the identified object.

## DESCRIPTION

FerroxTag 13.56MHz encapsulated is compliant with the ISO/IES 15693 and ISO/IEC 18000-3 global open standards.

This product offers a user accessible memory of 1024 bits, organized in 32 blocks of 4 bytes and an optimized command set.

Each transponder has a factory programmed 8 bytes unique identifier. Prior to delivery, Ferroxtag undergo complete and parametric testing, in order to provide high quality.

Designed for harsh environments, the encapsulation protects the device against impacts, making it ideal for industrial applications

This part is not tuned for use on metallic items. **For metallic items use Ferroxtag FXT1.2.3-SLI-XT, or ask your local distributor. [www.ferroxtag.com](http://www.ferroxtag.com).**

## SPECIFICATIONS

PART NUMBER	FXT1.1.3-SLI-XT
Supported Standard	ISO/IEC 15693; ISO/IEC 18000-3
Passive Resonance Frequency (at the air)	14MHz ± 300 kHz
Unique identifier	8 bytes
EEPROM memory	1024 bits, 32 blocks x 4 bytes
User programmable memory	28 blocks x 4 bytes
Typical programming cycles	100,000
Data retention time	10 years
Data transfer	Up to 53 kbits/sec
Typical Reading range	10 cm with 4 watts reader power and 30x30 cm
Simultaneous Identification of Tags	Up to 50 tags per second (reader/antenna dependent)
Operating & Storage temperature	-25°C to +60°C
IC	NXP-ICODE SLI

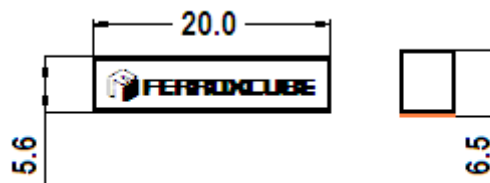


## FXT1.1.3-SLI-XT

code: 4330 034 10301

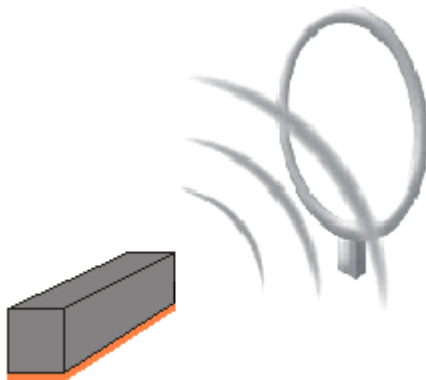
### MECHANICAL PROPERTIES

Dimensions	20 x 5.6 x 6.5 mm
Weight	1.1 grams
Case material	ABS
Degree of protection	IP68
Colour	Black, others upon request
Sealing material	Black Epoxy
Clamping to items	High performance adhesive tape



### TAG INSTALLATION

It is recommended to install the tag on a corner of the item to be identified 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 right way of installing the tag is to put the adhesive tape against the item to be identified.

### MEMORY ORGANIZATION

The 1024 bits EEPROM memory is divided in 32 Blocks of 4 bytes. (1 Block = 32 bits). The 64 bit Unique Identifier (UID) is programmed during the production process. The next 2 blocks are for control (EAS= Electronic Article Surveillance, AFI= Application Family Identifier, DSFID= Data Storage Format Identifier) and write access conditions for the rest of the blocks. Blocks 0 to 27 can be addressed with read and write commands only.

	Byte 0	Byte 1	Byte 2	Byte 3	
Block -4	UID 0	UID 1	UID 2	UID 3	} UID n° (64bits) EAS, AFI, DSFID
Block -3	UID 4	UID 5	UID 6	UID 7	
Block -2	Control bytes				
Block -1	Write access conditions				
Block 00	R/W	R/W	R/W	R/W	} User data 28 blocks
Block 01	R/W	R/W	R/W	R/W	
Block 02	R/W	R/W	R/W	R/W	
.....	...	...	...	...	
.....	...	...	...	...	
Block 25	R/W	R/W	R/W	R/W	
Block 26	R/W	R/W	R/W	R/W	
Block 27	R/W	R/W	R/W	R/W	

32



## **FXT1.1.3-SLI-XT**

code: 4330 034 10301

---

### **DISCLAIMER**

These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Ferroxcube customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ferroxcube for any damages resulting from such application.