MAGICSTRAP®



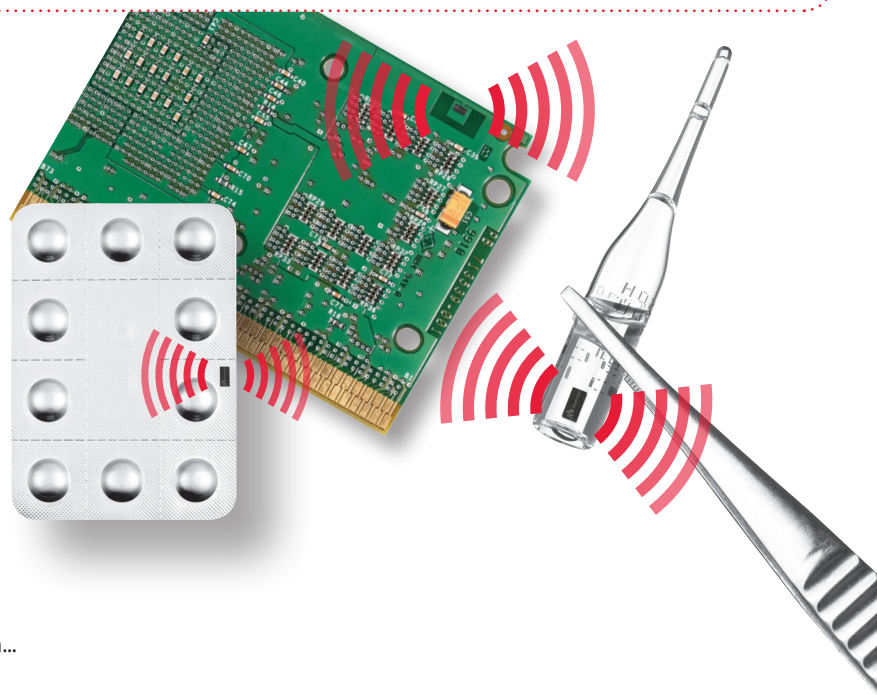
MAGICSTRAP®

- World's smallest UHF RFID tag* achieved by embedding the RF circuit into LTCC base.
- Contributes to human error reduction, inventory management of medical devices

** Only for close-range reading. Possible to extend read range with external antenna*

Applications

- *Medical inventory management*
- *Prevention of human errors*
- *Unique Device Identification (UDI)*



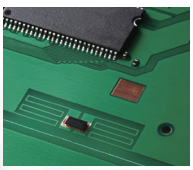
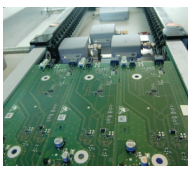
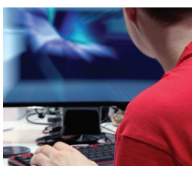
Features

- *Possible to mount in tight spaces (smaller than barcode)*
- *Possible to mount on metal surfaces*
- *Possible to read without antenna (close range)*
- *High reliability due to aging*

RFID value creators

Scalable RFID solutions adding value to the electronics value chain...

Beta LAYOUT · Brooks · detego® · KATHREIN RFID · muRata · NXP

R&D	Production	Logistics	Distribution	Point of Sale	After Sales	Recycling
						
● *Process Control*	● *Shipment Control*	● *Maintenance & Repair*				
● *Prototype Management*	● *Traceability*	● *Anti-Grey market*				
● *Brand Protection*	● *Lifecycle Management*	● *WEEE Recycling*				

MAGICSTRAP® is a registered trademarks of Murata Manufacturing Co. Ltd.

muRata
Innovator in Electronics

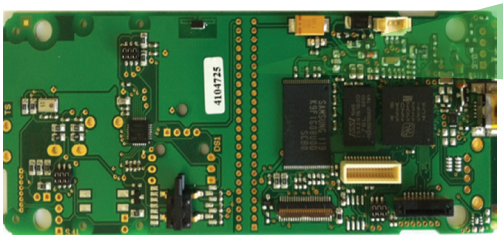
www.murata.eu
info@murata.eu

MAGICSTRAP®

How to apply

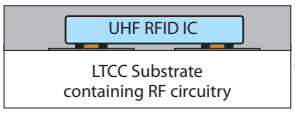
MAGICSTRAP® on PCB

Add one component and make your PCB smart





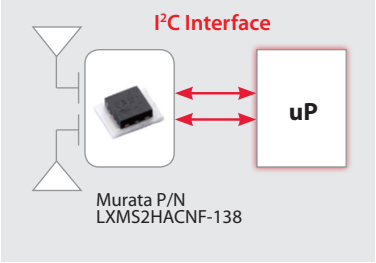
Construction



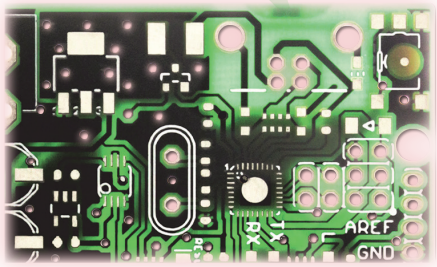
MAGICSTRAP® +I²C



Electronic device in package



MAGICSTRAP in PCB



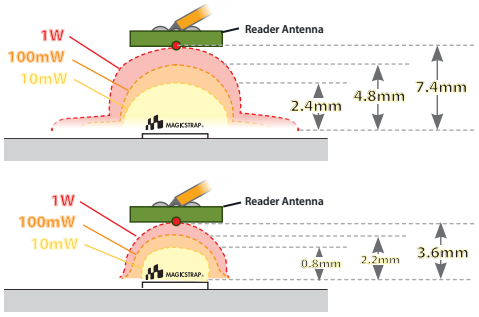
Types of antennaless use

P/N	Size (mm)	Feature	Description	ES	MP
LXMS31ACNA-012	3.2 x 1.6 x 0.7	UHF, int. Antenna, user Memory	NXP -G2XM - 512bits	Now	Now
LXMS21NCNH-147	2.0 x 1.2 x 0.7	UHF, int. Antenna, user Memory	NXP -G2iM - 512bits	Now	Now
LXMS33HCNG-134	3.2 x 3.2 x 0.7	HF, int. Antenna, user Memory	NXP -iCode SLIx - 896bits	Now	Now
LXMS33HCNK-167	3.2 x 3.2 x 0.7	NFC, int. Antenna, user Memory	NXP - NTAG - 384bits	Now	2014

Types of RFID in electronics

P/N Type	Size (mm)	Feature	Descripition	ES	MP
LXMS31ACNA-009	1 3.2 x 1.6 x 0.7	SMD, user memory, UHF	NXP - G2XM - 512 bits	Now	Now
LXMS31ACNA-010	2 3.2 x 1.6 x 0.7	SMD, user memory, UHF	NXP - G2XM - 512 bits	Now	Now
LXMS31ACNA-011	3 3.2 x 1.6 x 0.7	SMD, user memory, UHF	NXP - G2XM - 512 bits	Now	Now
LXMS31ACNA-012	4 3.2 x 1.6 x 0.7	SMD, user memory, UHF	NXP - G2XM - 512 bits	Now	Now
LXMS2HACNF-138	2 2.5 x 2.0 x 0.7	i2C-I/F, 3.3kbit memory, UHF	NXP - G2I2C - 3.3k bits	Now	Now

Illustration Antennaless Use



Supply chain management

Access information about the product throughout the whole supply chain



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info@murata.eu