

Guardian Family

GD25 – NTAG



Overview

Application Area

Paragon ID GUARDIAN Family of NFC inlays are optimally designed for Brand Protection applications like identification of luxury goods, fragrances, wines and spirits. The design is such that it can also be used for general purpose NFC applications

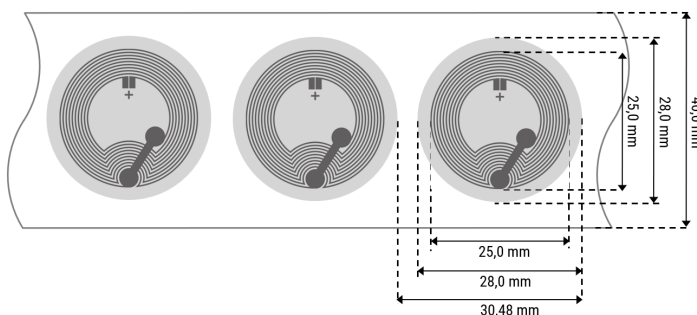
IC

The GD25-NTAG is based on the NXP NTAG series of IC's. These NFC type 2 compatible ICs are available with 48, 144 and 888 bytes of memory and are designed for mass market NFC applications.

Paragon ID

Paragon ID is the largest EU based RFID inlay and label manufacturer with production facilities in Argent, France and Bucharest, Romania. Inlays are manufactured according to the highest quality standards

Dimensions



Product overview

Antenna dimensions	Round 25 mm diameter
Antenna material	Aluminium
Operating frequency	13.56 Mhz
IC	ST Microelectronics ST25TN512, ST25TN01K
International standards	NFC type 2, ISO14443A
Memory	NTAG210: 48 bytes NTAG213: 144 bytes NTAG216: 888 bytes
Security	ECC based originality signature
Other features	Automatic serialization of NDEF message Configurable password protection Read-only locking per memory page

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Inlay specifications

Antenna size	Round 25 mm/ 0.63 in
Die-cut	Round 28 mm / 0.75 in
Substrate	PET 50 µm
Antenna	Aluminium 15µm
Adhesive	Acrylic, permanent
Backing	Silicon paper
Minimum Yield	98% or higher, 2 splices or less per roll
Quality assurance	100 % tested
Marking	Failed units marked
Delivery Details	10 000 functional inlays/roll, 76 mm (3 in) core

IC specifications

Model and Memory	NTAG210, 48 bytes user memory NTAG213, 144 bytes user memory NTAG216, 888 bytes user memory
Standards	NFC type 2 ISO/IEC 14443 type A
Identifier	7 bytes, unique
Operating Temperature	-40°C up to +85°C -40°F up to +185°F
Data Retention	10 years at +22°C
Write Cycles	Minimum 100,000

Delivery information

	Delivery Format		
	DRY Inlay	WET Inlay	Label
Chip	NTAG210 213 216	NTAG210 213 216	NTAG210 213 216
Antenna size	Round 25 mm / 0.98 in	Round 25 mm / 0.98 in	Round 25 mm / 0.98 in
Die-cut size	N/A	Round 28 mm / 1.10 in	Round 28 mm / 1.10 in
Standard Pitch	30.48 mm / 1.20 in	30.48 mm / 1.20 in	30.48 mm / 1.20 in
Web width	40 mm / 1.57 in	40 mm / 1.57 in	40 mm / 1.57 in
Core inner diameter	76 mm / 3.0 in	76 mm / 3.0 in	76 mm / 3.0 in
Quantity per roll	10,000	10.000	10.000



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