

Tracker Family

TR5050 – ST25TV



Overview

Application Area

Paragon ID TRACKER Family of NFC inlays are optimally designed for applications that require long read range, supporting use cases in for example libraries and logistics

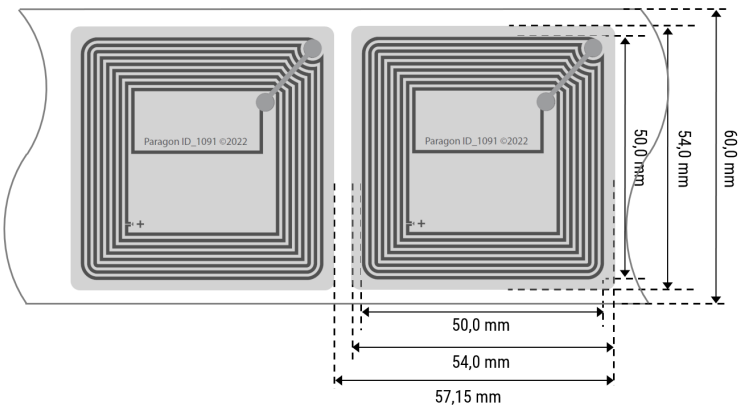
IC

The TR5050 is a very high-performance NFC type 5 inlay available with the STMicroelectronics ST25TV512C and the ST25TV02KC with 512 bits and 2560 bits of memory. The ST25TV series offers features like augmented NDEF services, TruST25z digital signature and unique tap code.

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, using state of the art manufacturing equipment

Dimensions



Product overview

Antenna dimensions	50,0 x 50,0 mm
Antenna material	Aluminium
Operating frequency	13.56 MHz
IC	STMicroelectronics ST25TV series
International standards	NFC type 5, ISO15693
Memory	ST25TV512KC: 512 bits ST25TV2KC: 2560 bits
Privacy	Password protected privacy mode
Other features	Augmented NDEF services TruST25z digital signature Unique tap code Password protected memory Password protected label destroy EAS capability

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Inlay specifications

Antenna size	50,0 x 50,0 mm / 1.97 x 1.97 in
Die-cut	54,0 x 54,0 mm / 2.13 x 2.13 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	STMicroelectronics - ST25TV512C - ST25TV2KC
Standards	NFC type 5 ISO/IEC 15693
Identifier	64 bits, unique
Operating Temperature	-40°C up to +85°C -40°F up to +185°F
Data Retention	60 years at T < +55°C
Write Cycles	Minimum 100,000

Delivery information

	Delivery Format		
	DRY Inlay	WET Inlay	Label
Chip	ST25TV512C 2KC	ST25TV512C 2KC	ST25TV512C 2KC
Antenna size	50,0 x 50,0 mm / 1.97 x 1.97 in	50,0 x 50,0 mm / 1.97 x 1.97 in	50,0 x 50,0 mm / 1.97 x 1.97 in
Die-cut size	N/A	54,0 x 54,0 mm / 2.13 x 2.13 in	54,0 x 54,0 mm / 2.13 x 2.13 in
Standard Pitch	57,15 mm / 2.25 in	57,15 mm / 2.25 in	57,15 mm / 2.25 in
Web width	60,0 mm / 2.36 in	60,0 mm / 2.36 in	60,0 mm / 2.36 in
Core inner diameter	76 mm / 3.0 in	76 mm / 3.0 in	76 mm / 3.0 in
Quantity per roll	10.000	5.000	5.000



To ensure this product meets application requirements, this product should be tested under conditions appropriate to the application. Paragon ID does not warrant that this product is fit for any particular use or purpose. The information provided in this datasheet is believed to be reliable to our current experience and knowledge, no rights however can be derived from the information provided in this datasheet. Paragon ID reserves the right to change or discontinue product offerings at any time without notice.