



STMicroelectronics® ST25TV512 NFC Card



SKU:	RS-ST512-CR80
Chip Type:	STMicroelectronics® ST25TV512
Frequency:	HF 13.56 MHz
Protocol:	ISO/IEC 15693, NFC Forum Type 5
EEPROM:	256 bytes
Industry:	Access Control, Events, Transportation
Applications:	Public Transportation, Event Ticketing, Access Control, Loyalty System, E-Government & Identity

The ST25TV512 NFC Forum Type 5 Card delivers secure and versatile performance for modern contactless applications. Fully compliant with ISO/IEC 15693 and NFC Forum Type 5 standards, it operates at 13.56 MHz and incorporates a 8 bytes unique identifier (UID) for reliable authentication. With up to 256 bytes of EEPROM, the card supports features such as encrypted password protection, Kill Mode, and Untraceable Mode, ensuring data security and user privacy in demanding environments. Ideal for smart packaging, brand protection, and industrial identification, it provides a balance of security, range, and compatibility with most NFC-enabled devices.

Engineered with STMicroelectronics® TruST25™ digital signature technology, the ST25TV512 enhances product authenticity and anti-counterfeiting measures. Its robust design supports EAS (Electronic Article Surveillance) and privacy safeguards, making it a dependable choice for retail, logistics, and supply chain management. Combining advanced security functions with flexible data storage and a long communication range, this NFC Forum Type 5 card offers a reliable foundation for businesses seeking to integrate intelligent, traceable, and secure contactless solutions.

Physical Information	Material	Black Core PVC, White Core PVC, White Core PET (WEEE Directive✓), White Core ABS (WEEE Directive✓), Wooden (WEEE Directive✓)
	Card Size	86×54×0.88 mm (3.4"×2.2")
	Operating Environment	-20°C~+50°C, 20%~80% RH
	Storage Environment	+18°C~+28°C, 20%~90% RH
	Surface Treatment	Glossy, Matte or Frosted
	Personalized Printing (NA For Wooden Cards)	Thermal Transfer/Dye Sublimation
	Customization Options (NA For Wooden Cards)	Pre-Printing, Barcode Printing, Embossing, Holograms, Signature Panels, UV Printing, Hot Stamping, Punch Holes
	Care Tips	1. Avoid excessive bending 2. Keep away from water 3. Store in cool and dry place
Cleaning Tips		1. Use a soft, dry cloth 2. Avoid harsh chemicals or abrasive cleaners 3. Remove stains immediately

Technical Information	Operating Frequency	13.56 MHz
	Communication Protocol	ISO/IEC 15693, NFC Forum Type 5
	Chip Type	STMicroelectronics® ST25TV512
	Data Retention	60 years
	UID Memory	8 bytes
	EEPROM	256 bytes
	Write Endurance	100,000 times
	Anti-Tearing	Support
	Security Feature	32 bit/64 bit Encrypted Password Protection, Kill/Untraceable Mode, Tamper Detect, TruST25 Digital Signature, EAS, Privacy Protection

Packaging Information	Packing Format	Single pieces, piece by piece
	Packing Quantity	200 pcs/case, G.W. : 1.3 kg
	Packing Method	1000 pcs or 2000 pcs/carton
	Carton Dimension	1000 pcs: 23×20×17 cm (G.W.: 7 KG); 2000 pcs: 48×23×14 cm (G.W.: 13 KG).

● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.
 ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage.
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