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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ST25TA series NFC/RFID tags



NFC/RFID tags with ISO/IEC 14443 Type A RF interface, NDEF memory and 128-bit password protection

ST's ST25TA ICs provide the NFC Forum Type 4 Tag RF interface and built-in NDEF (NFC Data Exchange Format) message support. The embedded EEPROM memory density spans from 512 bits to 64 Kbits, covering a wide spectrum of applications including content-rich virtual business cards and smart signs. The ST25TA series delivers state-of-the-art RF performance and features a user-programmable digital CMOS (or Open Drain) output that eliminates the need for an external component to trigger the host wake-up.

KEY FEATURES

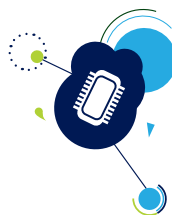
- ISO/IEC 14443 Type A
- NFC Forum Type 4 Tag
- 13.56 MHz carrier frequency
- 512-bit, 2-Kbit, 16-Kbit and 64-Kbit densities
- 56-bit unique identifier
- 128-bit password protection
- Optional 20-bit counter
- Optional RF status digital output
- 5- and 8-lead UDFPN packages
- Bumped wafer die form packages
- 25 or 50pF tuning capacitance
- 200 years data retention
- 1 million write erase cycles

KEY BENEFITS

- Wide memory density options
- High-reliability EEPROM
- Built-in NDEF format support
- Strong password protection scheme
- Read or Write operations counter
- Flexible user-programmable GPO

KEY APPLICATIONS

- Smart posters
- NFC business cards
- Consumer electronics
- Wireless handover
- Gaming
- Industrial
- Traceability
- Wearable electronics
- Computer peripherals



DEVICE SUMMARY

Part number	RF interface	Memory size	Data protection (128 bit password)	20 bit Counter	Package	RF status output
ST25TA512	ISO 14443A Type A	512 bit	Yes	Yes	SBN12 *	No
ST25TA02K	ISO 14443A Type A	2 Kbit	Yes	Yes	SBN12 *	No
ST25TA02K-P	ISO 14443A Type A	2 Kbit	Yes	Yes	UFDFPN5 and 8, SBN12 *	Yes (CMOS positive GPO)
ST25TA02K-D	ISO 14443A Type A	2 Kbit	Yes	Yes	UFDFPN5 and 8, SBN12 *	Yes (Open Drain GPO)
ST25TA16K	ISO 14443A Type A	16 Kbit	Yes	No	SBN12 *	No
ST25TA64K	ISO 14443A Type A	64 Kbit	Yes	No	SBN12 *	No

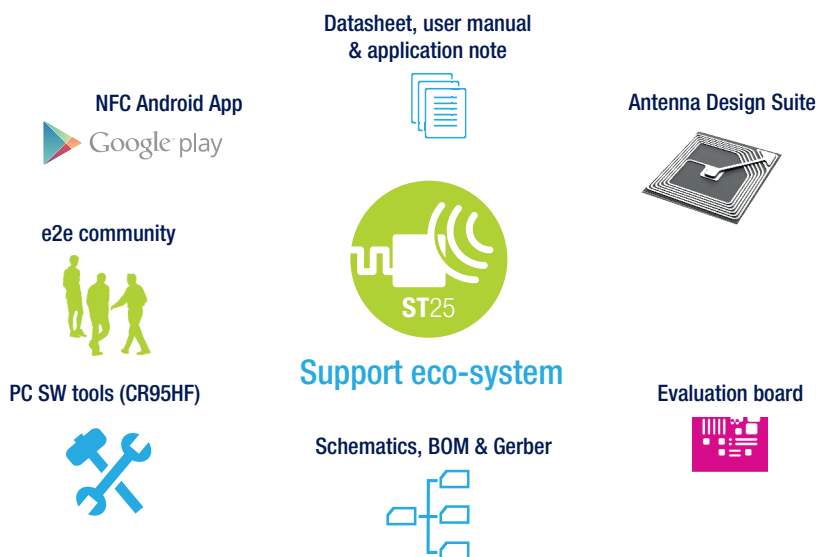
* SBN12: Sawn and Bumped wafer (die form), 120µm thickness

REFERENCE DESIGN KITS

The CLOUD-ST25TA is a ready-to-use demo board intended to evaluate the ST25TA02K-P (order code: CLOUD-ST25TA)



ECO-SYSTEM



TECHNICAL SUPPORT

The NFC/RFID tags family offers a simple and cost-effective implementation. ST can provide supporting material for integrating the antenna into your application: application notes, reference designs, antenna computation tools, e-presentations and e-learning.

Visit www.st.com/nfc-rfid