

95HF series

NFC/RFID readers and transceivers



NFC/RFID integrated reader and transceiver ICs for contactless applications

ST's 95HF series provides multi-protocol support for 13.56 MHz NFC/RFID communications and is part of ST25 product family. The 95HF portfolio offers flexible solutions for NFC/RFID, proximity and vicinity applications.

Thanks to Reader/Writer and Card Emulation modes, 95HF series allow a wide spectrum of applications including identification, authentication, product configuration, access control, door locks, industrial tag readers, and dynamic data exchanges between 2 NFC devices. With a RAM buffer up to 528 bytes, these devices ensure fast data transfers up to 848 kbit/s.

KEY FEATURES

- ISO/IEC 14443 Type A
- ISO/IEC 14443 Type B
- ISO/IEC 15693
- ISO/IEC 18092
- 13.56 MHz carrier frequency
- RAM buffer up to 528 bytes
- Card Emulation mode
- Reader/Writer mode
- 32 lead, 5x5 mm, VFBFN 32 package

KEY BENEFITS

- Large RAM buffer for fast data transfers
- Low-power mode
- Simple implementation
- Limited BOM
- Development eco-system kits

KEY APPLICATIONS

- Dynamic data exchange between NFC devices
- Product authentication and configuration
- Access-control devices
- Digital door locks
- Tag reader equipment for medical, industrial and commercial.

DEVICE SUMMARY

Part number	General description	NFC interface	RF interface	Serial interface	Buffer size	Package
RX95HF	NFC receiver IC	Card Emulation	ISO/IEC 14443 Type A ISO/IEC 18092	SPI	256 bytes	VFQFPN 32
CR95HF	NFC reader IC	Reader/Writer	ISO/IEC 14443 Type A and B ISO/IEC 15693 ISO/IEC 18092	SPI / UART	528 bytes	VFQFPN 32
ST95HF	NFC transceiver IC	Reader/Writer Card Emulation	ISO/IEC 14443 Type A and B ISO/IEC 15693 ISO/IEC 18092	SPI	528 bytes	VFQFPN 32

* NFC: Near Field Communication

REFERENCE DESIGN KITS

- For evaluating the ST95HF transceiver solution: ST95HF evaluation board (order code: EVAL-ST95HF)



- For evaluating the CR95HF reader solution: M24LR Discovery kit with RF transceiver board (order code: M24LR-DISCOVERY)



ECO-SYSTEM



TECHNICAL SUPPORT

The NFC/RFID readers and transceivers offer 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 documentation.

For more information, visit www.st.com/nfc-rfid



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