

95HF series

NFC/RFID transceivers and readers



NFC/RFID integrated transceiver and reader ICs for contactless applications

ST's 95HF series provides multi-protocol support for 13.56 MHz NFC/RFID communications. The 95HF portfolio offers flexible solutions for NFC/RFID, proximity and vicinity applications. In addition to Card Emulation and Reader/Writer modes, a Peer-to-Peer function is also available for a wide spectrum of applications including convenient wireless pairing (Bluetooth, Wi-Fi), 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
- Peer-to-Peer mode
- 32 lead, 5x5 mm, VFQFPN 32 package

KEY BENEFITS

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

KEY APPLICATIONS

- Wireless pairing (Bluetooth, Wi-Fi)
- 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	Card Emulation Reader/Writer Peer-to-Peer	ISO/IEC 14443 Type A and B ISO/IEC 15693 ISO/IEC 18092	SPI	528 bytes	VFQFPN 32

* NFC: Near Field Communication

95HF DEVELOPMENT BOARDS

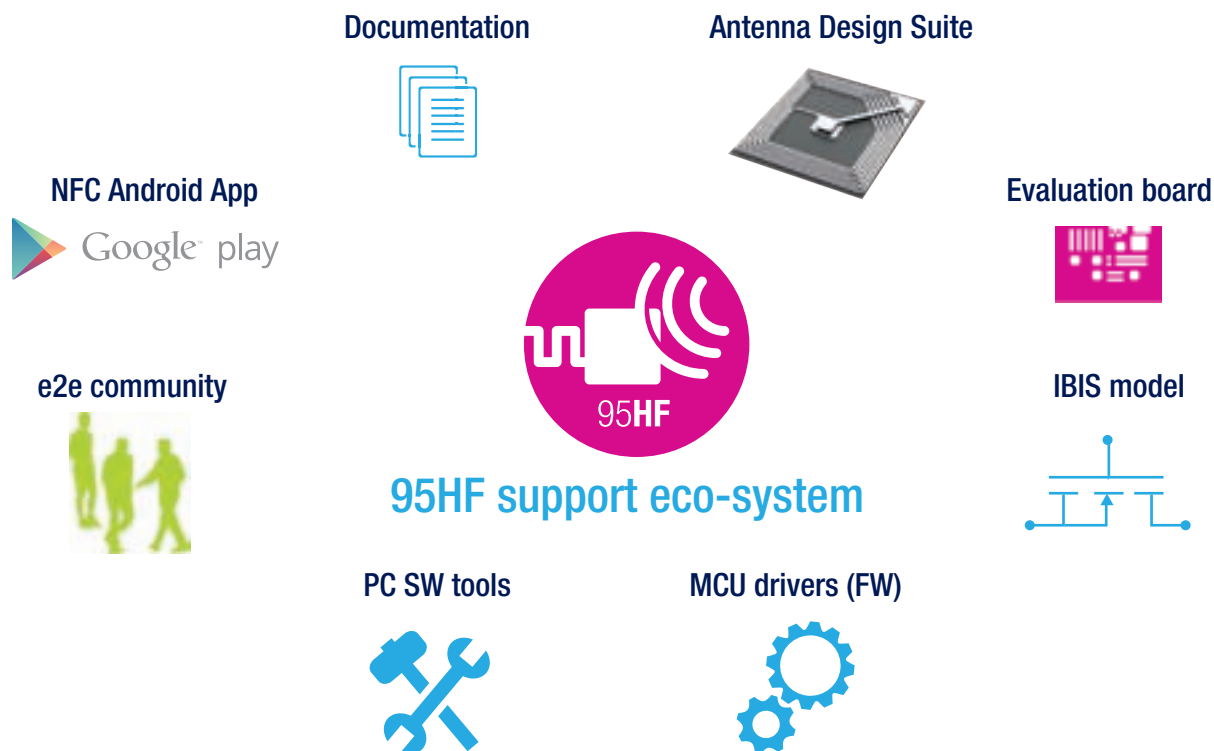
For evaluating the ST95HF transceiver solution:

- ST95HF evaluation board (order code: EVAL-ST95HF)

For evaluating the CR95HF reader solution:

- M24LR Discovery kit with RF transceiver board (order code: M24LR-DISCOVERY)

95HF SERIES ECO-SYSTEM



TECHNICAL SUPPORT

ST's 95HF family of NFC/RFID transceivers 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 documentation. [For more information, visit www.st.com/nfc-rfid](http://www.st.com/nfc-rfid)



© STMicroelectronics - April 2015 - Printed in United Kingdom - All rights reserved
The STMicroelectronics corporate logo is a registered trademark of the STMicroelectronics group of companies
All other names are the property of their respective owners

