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ST25 NFC / RFID solutions for POS and banking applications

Point of sales, mobile POS (mPOS), CVV credit card...

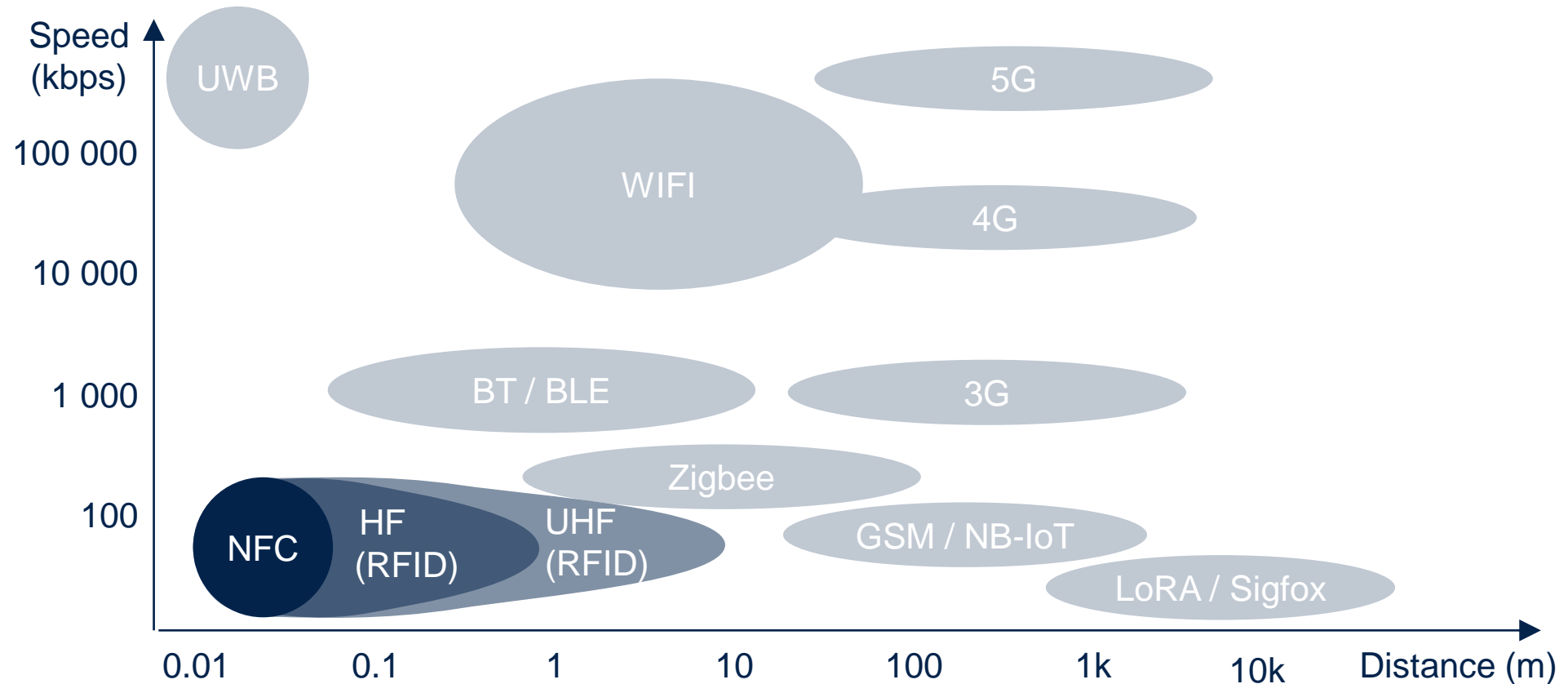
MMY division





NFC, RFID HF & UHF technologies

Complementary solutions to Wireless Technologies



Communication from 1cm (NFC) to up to 10m (RFID UHF)

POS & Banking applications



NFC technology

Near Field Communication



- Short range contactless communication
- Technology operating at 13.56MHz frequency
- Based on RFID HF ISO14443 & ISO15693 standards

Interactive and zero power



- NFC tags powered by phone or RFID reader
- Enabling convenient connection to the Cloud for IoT
- NFC-enabled mobile phone can engage with items by a simple tap

NFC is developed by NFC Forum



- Interoperability between devices with NFC Forum certified products
- Standardized use cases (URL web link, Bluetooth handover...)

Fast growing employment in Mobile phone



- More than 70% of new phones come with NFC
- NFC is used for Mobile Payment with Android and iOS (ApplePay)
- Apple added in 2019 support of NFC reader / writer mode from iOS13 onward



NFC main use cases & benefits

Contactless payment

NFC



- Contactless Payment with NFC phone, NFC credit card or NFC wearable devices
- Configuration / setup of the POS terminal
- User authentication on cash register

Credit card configuration

NFC



- Smooth credit card personalization in production or in post production thanks to NFC interface

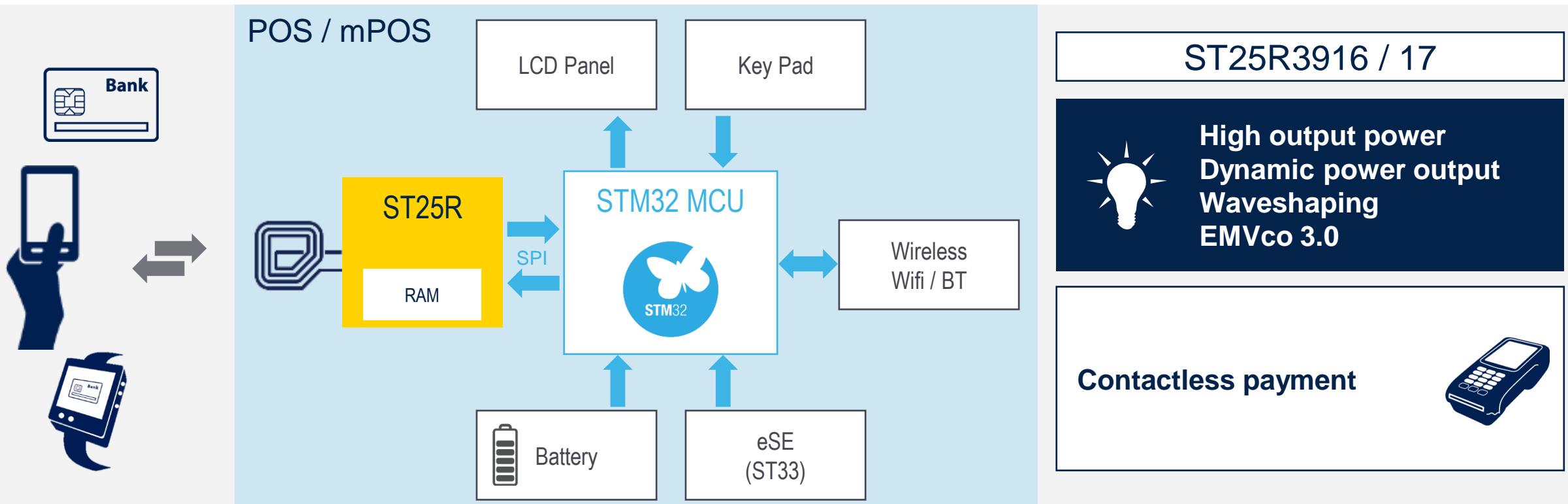


Interactive and zero power technology (Credit card powered by Reader)
Trusted communication thanks to short reading distance
Convenient product configuration



HF / NFC reader

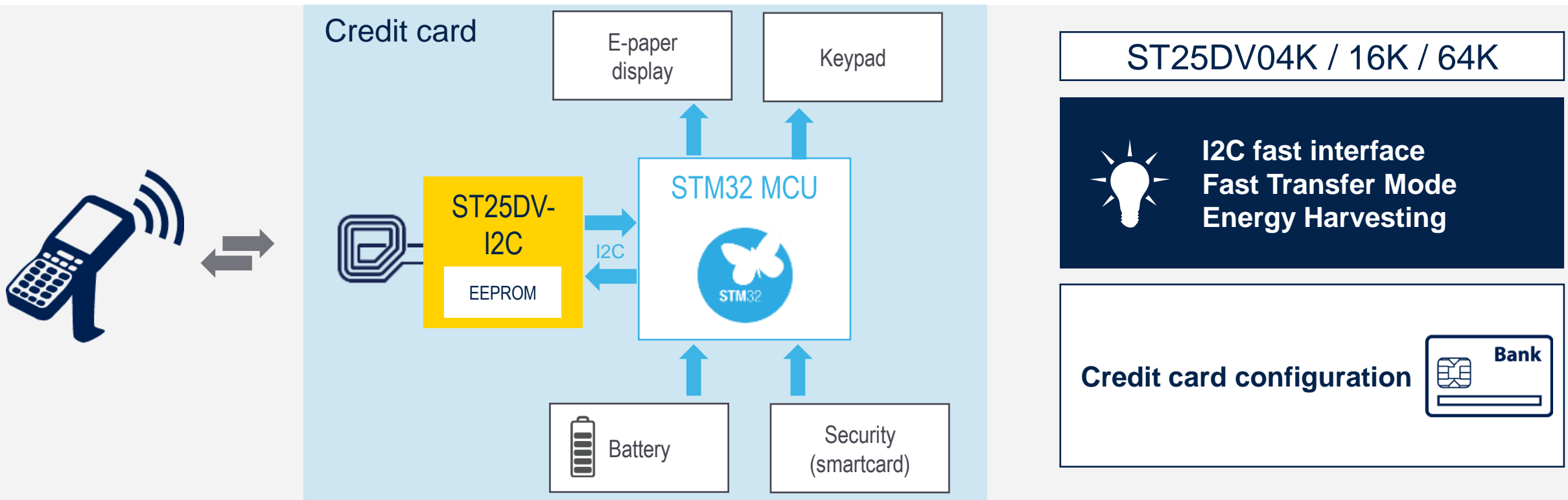
Typical HF / NFC Reader Block Diagram & Usage for POS / mPOS





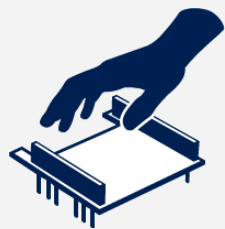
Dynamic NFC tag

Typical Dynamic NFC Tag Block Diagram and Usage for Banking





ST25 rich eco-system



- Discovery Kits based on STM32 MCU
- STM32 Nucleo boards ecosystem
- STM32Cube software ecosystem



- Antenna e-design tool
- Schematic, BOM, Gerber
- IBIS models



- PC software tool ST25 SDK
- Mobile Apps ST25 SDK (Android & iOS)



- Documentation
- Training
- Webinar
- MOOC



ST25 hardware solutions

Speed-up Evaluation, Prototyping and Design



DYNAMIC NFC TAG KITS

- ST25DV-DISCOVERY
- ANT-1-6-ST25DV
- X-NUCLEO-NFC04A1
- ANT7-T-ST25DV04K



HF / NFC READER KITS

- ST25R3916-DISCO
- X-NUCLEO-NFC06A1



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Solutions for NFC / RFID tags & readers



ST25 SIMPLY MORE CONNECTED