



For further details please refer to: www.negotecnica.com

MIFARE® contactless tag IC family overview

Table with columns for Product features, MIFARE Ultralight (Nano, EV1, C), MIFARE Classic (EV1), MIFARE Plus (SE, EV2), and MIFARE DESFire (Light, EV3, EV2). Rows include RF Interface, Protocol, UID, Communication speed, Memory size, Memory model, Crypto, Key length, Authentication, Communication security, MismartApp, Transaction MAC, Transaction Timer, Security Level upgrade, SL1SL3MixMode, Multi key sets, Proximity check, Virtual card concept, Restrict update operations in SL1, Originality check features, CC Certification, ISO 7816-4 APDU, NFC compliance, Target applications, Input capacitance [pF], Multi applications, and Delivery types - 7 Byte UID.

* MIFARE Ultralight EV1 and MIFARE Classic EV1 wafer deliveries are next to 8 inch as well available on 12 inch

MIFARE and NFC reader/writer IC solutions selection

Table with columns for Product, NFC frontend solutions (SLRC610, MFRC630, CLRC663, PN5180), NFC controller solutions (PN7150, PN7462), and HITAG (HITRC110). Rows include Integrated microcontroller, Carrier frequency [MHz], Standards & protocols, Reader/writer, NFC tag type reader, ISO/IEC 14443 Bit-rate [KBit/s], Felica Bit-rate [KBit/s], MIFARE Classic support, ISO/IEC 15693 Bit-rate [KBit/s], EPC class-1 HF/ISO/IEC 18000-3M3, EMVCo compliance, Card emulation, NFC tag type emulation, NFC tag type Bit-rate [KBit/s], Peer-to-peer (ISO/IEC 18092), Passive communication, Active communication, Operating distance up to [mm], RF transmitter supply voltage [V], Transmitter supply current, typ [mA], Host interface, Supply voltage host interface [V], Standby mode current, typ [µA], Power-down mode current, typ [µA], Dynamic power contr./ Adaptive modulation contr., Lower-power card detection mode, Temperature range [°C], Security features, MIFARE SAM support, MIFARE Classic security (CRYPTO1 HW), Product support & ordering information, Package, Product type, Software, and NFC Reader library.

MIFARE embedded card functionality on SmartMX®

Table with columns for Product, MIFARE implementations (Available card IC functionality), UID options, Parameters, Exit on, and MIFARE select. Rows list various MIFARE IC models like P5Cx145, CD128Cx081, CD051, CD041, CD021/CD016, P5Cx081V1D/CD041V1D, CD021V1D, CD016V1D, P5Cx144, Cx080/CD040, CD020/CD012, P5Cx145, CD128, P60D144M, P60D080M, P60D024M, P60D144D, P60D080D, P60D024D, P60N144J, P60D144J, P60D080J, and P60D080J.



MIFARE – SAM (Secure Access Modules)

Table with columns for Product features and MIFARE SAM AV3. Rows include Communication interface, Cryptographic algorithms, Public key infrastructure (PKI), Hash function, Supported cryptography, Secure host communication, X- functionalities, Unique serial number [Bytes], True random number generator, No of symmetric key entry, No of RSA key entry, No of ECC key and curve entry, No of EMV key entry and RID, Access conditions, Key usages counter, Key diversification, RSA, ECC, DES/3DES security, AES 128 security, and Programmable Logic.

Development and testing tools

Table with columns for Products, Short description, and Supported NXP platforms. Rows include NXP Originality Checker reader (Windows), MIFARE Reader-Writer Kit (Windows), RFID Discover (Windows), and TapLinX.

Table with columns for Delivery types and MIFARE SAM AV3. Rows include Contact module (PCM1.5), HVQFN (HVQFN32), and Part Type (MF4SAM3).