

DRAFT SHORT DATA SHEET: NXP.J3H145 (ID-1) on NXP Semiconductors SmartMX2 P6022y VB - MoTechno product# NXP.J3H145.DI

<https://www.mot techno.com/buy/j3h145-jcop3/> MoTechno product# NXP.J3H145.DI

JCOP version: JCOP 3

Specifications & features

JAVA CARD version 3.0.4 Classic
 GlobalPlatform Card Specification 2.2.1
 SCP SCP02 as default / SCP01 or SCP03 optional
 Delegated management Yes
 Secure box Yes

Available memory size and technology

EEPROM (KByte) 144

Implemented MIFARE options:

MIFARE Classic 1K / 4K / no MIFARE [optional]
 MIFARE FleXTM with MIFARE Classic 4K [optional]
 MIFARE DESFire EV1 8K [optional]

eGovernment and banking performance

Basic Access Control (BAC) (20 kByte read) ask for an NDA (Info@MoTechno.com)
 EAC (36 kByte read) ask for an NDA (Info@MoTechno.com)
 MasterCard PayPass M/Chip4 (performance comparison) ask for an NDA (Info@MoTechno.com)

Cryptography

Data Encryption Standard (DES) and dual/triple key DES3 via coprocessor (on-card key generation):

DES/TDES DES, 2-key 3DES, 3-key 3DES.

Advanced Encryption Standard (AES) via coprocessor (on-card key generation):

AES [bit] 128/192/256

PKI via coprocessor (on-card key generation) for RSA and ECC:

RSA [bit] 512 up to 2048 (up to 4096 upon request)

ECC GF(p) [bit] 160 up to 521

Point Addition (PACE) Yes

SHA SHA-1/2

Other cryptographic support SHA-1, SHA-224, SHA-256, SHA-384, SHA-512 and CRC

Certifications and approvals

Common Criteria (VAN5) EAL 5+

Supported communication interfaces

Contact mode: T=0 and T=1 according to ISO/IEC 7816 with 3.5712 MHz

Communication speeds: 115200 bit/s [default]
 9600 bit/s, 19200 bit/s, 38400 bit/s, 57600 bit/s and 223200 bit/s [optional]

Requests for customized ATR are welcome.

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