

DRAFT SHORT DATA SHEET: NXP.J3D081 Dual Interface with P5CD081 - MoTechno product# NXP.J3D081.DI
 DRAFT SHORT DATA SHEET: NXP.J3D081 Contact-less with P5CD081 - MoTechno product# NXP.J3D081.CL

<https://www.motechno.com/buy/j3d081-dual-interface-javacard-3-0-1> MoTechno product#
 NXP.J3D081.DI

<https://www.motechno.com/buy/j3d081-contactless-javacard-3-0-1-contactless> MoTechno product#
 NXP.J3D081.CL

JCOP version: JCOP v2.4.2 R2

Specifications & features

JAVA CARD version 3.0.1 Classic
 GlobalPlatform 2.2
 SCP SCP02 (default) / 01 / 03 (project based)
 Delegated management Yes
 Secure box Yes

Available memory size and technology

EEPROM (KByte) 80
 CMOS technology CMOS14

Implemented MIFARE options:

MIFARE Classic 1K / 4K / no MIFARE -
 MIFARE FleXTM with MIFARE Classic 4K -
 MIFARE DESFire EV1 8K Yes

eGovernment and banking performance

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

DES/TDES [bit] 56/112/168
 AES [bit] 256
 RSA [bit] 2048
 ECC GF(p) [bit] 320
 Point Addition (PACE) Yes
 SHA SHA-1/2

Certifications and approvals

EMVCo hardware approval Yes
 EMVCo platform approval Yes
 VISA approvals Yes
 MasterCard PIC (TAS & CAST) Yes
 Common Criteria (VAN5) EAL 4+ with DESFire option

Requests for customized ATR are welcome.

Standard cards initiated with the following standard ATR:

3B F9 13 00 00 81 31 FE 45 4A 43 4F 50 32 34 32 52 32 A3

Contact interface ATR-Details:

Initial character:

TS = 3B --> Using Direct Convention

Format byte:

T0 = F9

- Y1 = 0F --> Interface Bytes Transmitted: TA1 TB1 TC1 TD1

- K = 09 --> # Historical Bytes = 9

Interface bytes:

TA1 = 13

- Fi / Di = 372 / 4 : Baud rate at 3.5712 MHz = 38400 bps

TB1 = 00

- VPP is not electrically connected

TC1 = 00

- Extra guard time integer (N) = 0

TD1 = 81

- Y1 + 1 = 08 --> Interface Bytes Transmitted: TD2

- Protocol T = 1

TD2 = 31

- Y2 + 1 = 03 --> Interface Bytes Transmitted: TA3 TB3

- Protocol T = 1

TA3 = FE

- IFSC : 254

TB3 = 45

- BWI = 4 , CWI = 5

Historical bytes: 4A 43 4F 50 32 34 32 52 32

Check Byte:

TCK = A3

Related products:

MoTechno product# NXP.J2E081.ID1

MoTechno product# NXP.J2E081.ID0

MoTechno product# NXP.J2E145.ID1

MoTechno product# NXP.J2E145.ID0

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