

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.mot techno.com/buy/j3d081-dual-interface-javacard-3-0-1/>

MoTechno product# NXP.J3D081.DI

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MoTechno product# NXP.J3D081.CL

JCOP version: JCOP v2.4.2 R2

#### Specifications & features

JAVA CARD version 3.0.1 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) 80

#### 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 (on-card key generation)

DES/TDES [bit] 112/168  
 AES [bit] 128/192/256  
 RSA [bit] 512 up to 2048  
 ECC GF(p) [bit] 128 up to 320  
 Point Addition (PACE) Yes  
 SHA SHA-1, SHA-224 and SHA-256

#### Certifications and approvals

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

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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

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