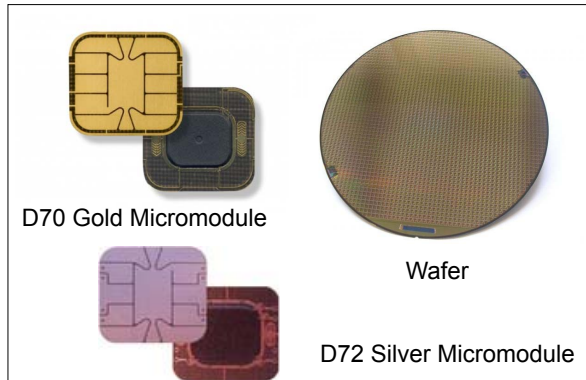


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**VSDC, M/Chip and Interac applications**  
**Java Card™ platform with 18 Kbytes of EEPROM – Dual interface**

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Data brief

**Features**

- Java Card™ platform
- Embedded Interac®, Visa® Smart Debit Credit (VSDC) and MasterCard® M/Chip® EMV applications
- Visa, MasterCard and Interac certified

**Platform**

- Java Card™ 2.2.2 operating system
- Global Platform™ 2.1.1 API support
- Common personalization specification (CPS) compliant
- ISO/IEC 7816 T=0 and T=1 contact protocols
- ISO/IEC 14443 Type A and Type B contactless interfaces

**Hardware**

- ST31 ARM® SecurCore® SC000™ 32-bit RISC core
- 18 Kbytes of User EEPROM

**Applications**

- Payment applications embedded in ROM
- MasterCard M/Chip Advance 1.1 and M/Chip 1.1b Select for EMV payment applications
- Visa VSDC 2.8.1f for EMV DDA payment applications
- Interac 1.4 EMV payment applications
- PayPass 1.3.1, payWave 2.1.1 and Interac Flash 1.4 for contactless payments
- CAP (Chip Authentication Protocol) and DPA (Dynamic Passcode Authentication)
- PSE 2.2 (Payment System Environment) for application selection

**Cryptography**

- NESCRYPT cryptographic co-processor for RSA and Elliptic Curve cryptography
- Enhanced DES accelerator (EDES) for DES and 3DES support

**Personalization**

- EMV CPS v2.0 compliant
- VSDC Personalization Specification v 2.0
- M/Chip 4 v1.1 Common Personalization Specification

**Certifications**

- Visa® VSDC
- MasterCard® M/Chip
- Interac

**Delivery forms**

- 6-contact D70 (gold) and D72 (silver) modules
- Sawn/unsawn wafers

## 1 Description

The STPay-J-D18D-AX is a Java Card™ VGP 2.1.1 platform for payment applications with 18 Kbytes of user Non Volatile Memory.

The STPay-J-D18D-AX has Visa VSDC DDA, MasterCard M/Chip Advance, M/Chip 4 Select and Interac Flash payment applications pre-loaded in ROM. These applications support Visa payWave, MasterCard PayPass and Interac Flash contactless payments.

The STPay System-on-Chip (SoC) family is a packaged offering by ST, comprising a highly secure microcontroller, embedded application SW, tools and support, aimed at serving the needs of card embedders and personalization bureaus worldwide.

## 2 Development tools

The STPay tool is an easy to use toolkit that allows issuers and service providers to:

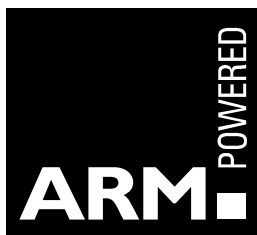
- Develop, test and install Java applets
- Personalize, test and validate STPay-Java sample cards

The tool comes with sample personalization scripts for VSDC and M/Chip to facilitate script development/validation and rapid card deployment.

## 3 Revision history

Table 1. Document revision history

Date	Revision	Changes
20-Dec-2013	1	Initial release.



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