

## ST Payment Secure Solution - Java Card Platform with up to 38 KB user NVM for Visa, MasterCard, Amex and Interac applications

Data brief



### Features

- Java Card™ platform
- Up to 38 Kbyte user NVM
- Certified payment applications: Visa®, MasterCard®, Amex® and Interac®
- CPS personalization

### Platform

- Java Card™ 2.2.2 operating system
- GlobalPlatform™ 2.1.1 API support
- Common Personalization Specification (CPS) compliant
- ISO/IEC 7816 T=0 or T=1 contact protocol
- ISO/IEC 14443 Type A or type B contactless interface

### Hardware

- ST31 product based on a 32-bit secure ARM® core (SC000™)
- Up to 38 Kbytes of user nonvolatile memory

### Cryptography

- NESCRYPT cryptographic RSA coprocessor
- Enhanced DES accelerator (EDES)

### Personalization

- EMV CPS v 1.1 compliant
- VSDC Personalization Specification v 2.0
- M/Chip Advance v1.1 Common Personalization Specification

### Applications

- MasterCard M/Chip Advance 1.1
  - Dual interface supporting PayPass™ contactless payments
- Visa VSDC 2.8.1f
  - Dual interface supporting payWave™ contactless payments
- Amex AEIPS 4.2
  - expresspay 2.0 for contactless payments
- EMV® payment application
- Interac Flash 1.4
- CAP (Chip Authentication Protocol) and DPA (Dynamic Passcode Authentication)
- PSE 2.2 (Payment System Environment) for application selection

## 1 Description

The STPay-J-DxxD-yX is a GP 2.1.1 Java Card™ platform for payment applications with up to 38 Kbytes of user nonvolatile memory.

STPay-J-DxxD-yX can be configured to support Visa VSDC, MasterCard M/Chip Advance, Amex and Interac payment applications. These applications support Visa payWave, MasterCard PayPass, Amex expressPay and Interac Flash contactless payments.

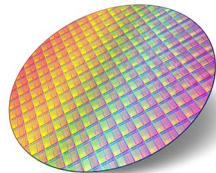
The STPay System-on-Chip (SoC) family is a packaged offering by ST, comprising a highly secure microcontroller, embedded application software, tools and support, aimed at serving the needs of card embedders and personalization bureaus worldwide.

For detailed configuration data, contact your local sales office.

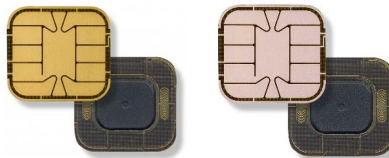
## 2 Certifications



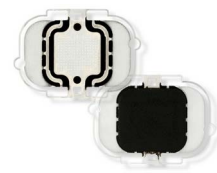
## 3 Delivery forms



Sawn/unsawn wafer



Dual-interface gold and silver micromodules



Contactless modules

## 4 Antenna interface

Product qualified with major inlay manufacturers, such as SPS, SMARTRAC and TOPPAN.

## 5 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.



## 6 Revision history

Table 1. Document revision history

Date	Revision	Changes
22-Aug-2016	1	Initial release.
05-Sep-2016	2	Corrected EMV CPS version in <a href="#">Personalization</a> and Visa VSDC version in <a href="#">Applications</a> .

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