

ST Payment Secure Solution - Java Card™ platform, 40KB NVM for Visa®, MasterCard®, JCB®, Amex® & Japanese banking applications

Data brief



Features

- Java Card™ platform
- Up to 40 Kbytes of user NVM
- Certified payment applications: Visa®, MasterCard®, JCB® and Amex®
- CPS personalization

Platform

- Java Card™ 2.2.2 operating system
- GlobalPlatform™ 2.2.1 API support
- Common Personalization Specification (CPS) compliant
- ISO/IEC 7816 T=0 or T=1 contact protocols

Hardware

- ST31 product based on a 32-bit secure Arm® Core (SC000™)
- Up to 40 Kbytes of user nonvolatile memory

Cryptography

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

Personalization

- Enhanced personalization performance for very rapid personalization times
- EMV CPS v1.1 compliant
- VSDC Personalization Specification v 2.0
- M/Chip Advance v1.2.1 Common Personalization Specification

Applications

- MasterCard® M/Chip® Advance 1.2.1
 - Single Account Data Sharing, option 1 and option 2
- Visa® VSDC 2.8.1g
- JCB® C.1.0
- Amex® AEIPS 4.2
- Optional applications for the Japanese market:
 - JBA JBA-CJ14 1.0
 - Finger FV 1.0
 - Palm PV 1.0

1 Description

The STPay-SaltWPearl is a GP 2.2.1 Java Card™ platform with a secure Arm® core and up to 40 Kbytes of user nonvolatile memory. It is intended for payment applications.

The STPay-SaltWPearl can be configured to support Visa® VSDC, MasterCard® M/Chip Advance, JCB® and Amex® payment applications as well as the JBA JBA-CJ14 1.0, Finger FV 1.0 and Palm PV 1.0 applications for the Japanese domestic market.

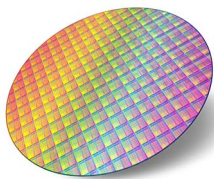
The STPay System-on-Chip (SoC) family is a packaged offering by ST, comprising a highly secure microcontroller, embedded application software, tools and support, aimed at serving the needs of card embedders and personalization bureaus worldwide.

For detailed configuration data, please contact your local ST sales office.

2 Certifications



3 Delivery forms



Wafer



8-contact and 6-contact gold or silver modules

4 Development tools

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

- Install and test Java applets.
- Personalize, test and validate STPay-Java sample cards.

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

arm



5 Revision history

Table 1. Document revision history

Date	Revision	Changes
08-Nov-2016	1	Initial release.
13-Oct-2017	2	Corrected user NVM size. Added ISO 7816 T=0 contact protocol to the Platform features. Specified that the JBA JBA-CJ14 1.0, Finger FV 1.0 and Palm PV 1.0 are for the Japanese market only. Updated Section 1: Description . Updated the Visa logo as well as the Arm trademark and Arm logo. Small text changes.

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