

ST Payment Secure Solution - Java™ Static platform with up to 8 Kbytes of user NVM for Visa® and MasterCard® applications

Data brief



Personalization

- EMV® CPS v1.1 compliant
- VSDC (Visa smart debit/credit) Personalization Specification v 2.0
- M/Chip® 4 v1.1 Common Personalization Specification

Applications

- MasterCard M/Chip 4 1.1b Lite
- Visa VSDC 2.8.1g

Features

- Java Static platform
- Up to 8 Kbytes of user NVM
- Certified payment applications: Visa® and MasterCard®
- Common Personalization Specification (CPS) personalization

Platform

- Java Card™ 2.2.2 operating system
- GlobalPlatform® 2.1.1 API support
- CPS-compliant
- ISO/IEC 7816 T=0 protocol

Hardware

- Enhanced 8/16-bit ST23 CPU core
- Up to 8 Kbytes of User nonvolatile memory

Cryptography

- Enhanced DES accelerator (EDES)

1 Description

The STPay-ClamPearl is a GlobalPlatform 2.1.1 Java Card™ platform for payment applications with up to 8 Kbytes of user nonvolatile memory.

STPay-ClamPearl can be configured to support Visa VSDC and MasterCard M/Chip 4 Lite payment applications.

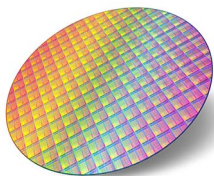
The STPay System-on-Chip (SoC) family is a packaged offering by ST, comprising a highly secure microcontroller, embedded application software, tools and support aimed at serving the needs of card embedders and personalization bureaus worldwide.

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

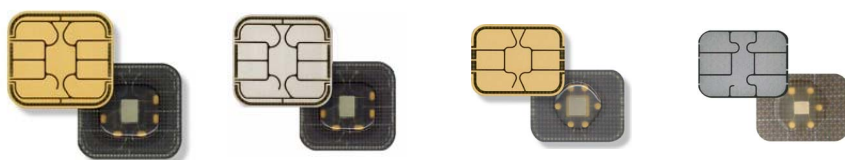
2 Certifications



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 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 fast card deployment.

5 Revision history

Table 1. Document revision history

Date	Revision	Changes
14-Sep-2017	1	Initial release.

IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgment.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2017 STMicroelectronics – All rights reserved