

## ST Payment Secure Solution – Java™ static platform with up to 15 Kbytes of user NVM for Elo and Discover® payment applications



### Features

- Java Static platform
- Up to 15 Kbytes of user nonvolatile memory
- Certified payment applications: Elo and Discover®
- Common personalization specification (CPS) personalization

### Platform

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

### Hardware

- Enhanced 8- or 16-bit ST23 CPU core
- Up to 15 Kbytes of User NVM

### Cryptography

- Enhanced DES accelerator (EDES)

### Personalization

- Enhanced personalization performance for very fast personalization
- EMV® CPS v1.1 compliant

### Applications

- Elo 1.5.3.c
- D-Payment Application Specification (D-PAS) 1.1

Product status link

[STPay-BlackPearl](#)

## 1 Description

The **STPay-BlackPearl** is a GlobalPlatform® 2.1.1 Java Card™ platform for payment applications with up to 15 Kbytes of user nonvolatile memory.

It can be configured to support Brazil's domestic Elo static data authentication (SDA) and Discover 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.

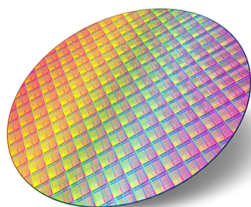


## 2 Certifications

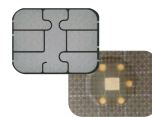
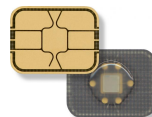
---



### 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 Elo and D-PAS to facilitate script development/validation and fast card deployment.

## Revision history

**Table 1. Document revision history**

Date	Version	Changes
24-Jul-2018	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 acknowledgement.

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.

© 2018 STMicroelectronics – All rights reserved