

YTSEC Secure Microcontroller

ONE-STOP-SHOP FOR PAYMENT SOLUTIONS

Jabil provides all components, products and technical expertise required to design contact & contactless Payment Solutions, from EMV/ PCI Microcontroller and Module/ Hardware Reference Design to white label Payment Terminal.



Secure Microcontroller



EMV/PCI Microcontroller



POS Terminal By YouTransactor



EMV/PCI Module



POS Terminal White Label

Secure Payment Solution

In the age of digitization and connectivity, the security of your personal and confidential data is paramount, and in the payment industry, even more so.

YTSEC is a low-cost secure microcontroller featuring key security modules. It implements the security standards defined by PCI PTS (version 5.x and above) as a **System on Chip** for PIN processing. YTSEC solution can also be used for contact and contactless payments using the Jabil EMV libraries. YTSEC leverages on STMicroelectronics' general purpose microcontroller STM32, easy to integrate and benefiting from a low-energy consumption.

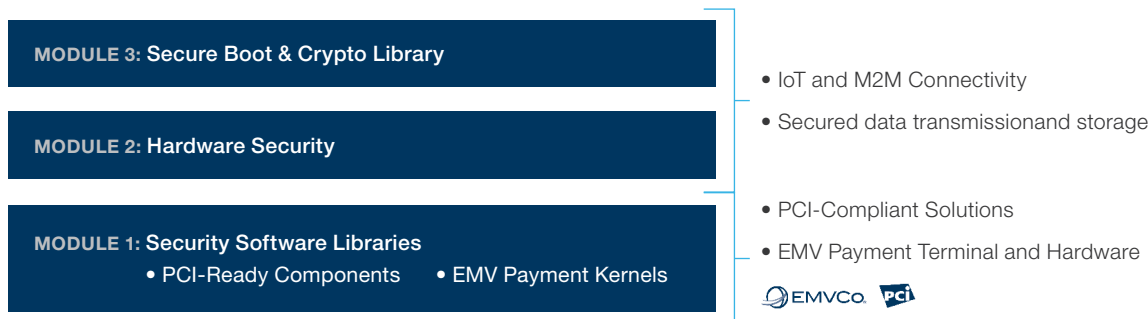
Mobile Payment Terminal - YT-Touch™

Jabil's YTSEC microcontroller is used in the smallest payment terminal ever created, the YT-Touch™, implementing EMV and PCI as a System-on-Chip to provide merchants with long lasting battery, while keeping the highest security standards.



Software Security Modules

Implementation of PCI-compliant security standards in the form of software eliminates the need of using a dedicated and expensive secure-microcontroller, thus reducing the hardware and peripheral requirements, and by extension, significantly reducing the cost of producing a payment terminal. The state-of-the-art YTSEC ultra-low-power processor reduces the power consumption of the terminal, thus increasing the battery-life and mobility of the payment terminals.



Module 1: Security Software Libraries

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PCI-PTS 5.1

X-CUBE CRYPTOLIB
Secure Boot, Remote Updates, Key Provisioning, Digital Security

SRED
Key Provisioning / Production Process, Secure Prompt, PCI Software

- PCI-ready (pre-certified) CE PCI-PTS v5.1

EMV

EMV L2 Contactless	EMV L2 Contact
EMV L1 Contactless Low Level Drivers	EMV L1 Contact Low Level Drivers

- Certified EMV Co, EMV L1 & L2 contact
- Pre-certified EMV L1 & L2 contactless

Module 2: Hardware Security Functionalities

Jabil's YTSEC implements security mechanisms based on periodic monitoring of different signals for each of the parameters under observation and erasure of the Master key upon detection of violation signal (secure storage erased if tampered), in addition to updating the security logs.



Security Monitoring

List of key parameters monitored resulting in secure storage being erased if tampered.

MESH	High Temperature
High Voltage	Clock Monitoring
Low Voltage	Secure Storage
Switch	Low Temperature

For additional information visit
jabil.com/payment-solutions

About Jabil Payment Solutions

Jabil (NYSE: JBL) is a manufacturing solutions provider with over 260,000 employees across 100 locations in 30 countries. The world's leading brands rely on Jabil's unmatched breadth and depth of end-market experience, technical and design capabilities, manufacturing knowhow, supply chain insights and global product management expertise. Driven by a common purpose, Jabil and its people are committed to making a positive impact on their local community and the environment.