

STSAFE-V500

Open platform for multiple automotive applications



Open Java Card™ system-on-chip platform for automotive applications

Enable more connected services in cars with a flexible, automotive-grade embedded secure element able to support multiple applications. STSAFE-V500 is based on the latest ST33K-A secure element hardware, certified CC EAL6+.

The open Java Card™ OS supports a growing number of Java Card™ applets and applications for connected cars.

STSAFE-V500 provides reliable secure services and robust vulnerability resistance to cybersecurity threats throughout a vehicle's lifetime.

KEY FEATURES AND BENEFITS

- Flexible system-on-chip solution
- AEC-Q100 Grade 2 qualified
- Hardware CC EAL6+ certified
- Java Card™ OS 3.0.5
- Java Card™ applet hosting
- Digital signature generation and verification
- Secure end-to-end chain of trust
- Secure storage
- Secure boot
- Software updates and applet provisioning

KEY APPLICATIONS

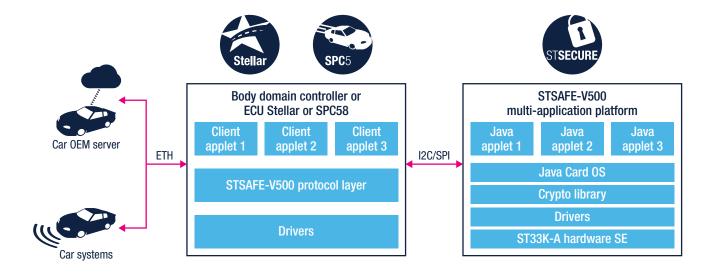
- Digital key system (CCC R2 & R3)
- WPC Qi 1.3 & Qi2 charging
- Secure infotainment
- Secure gateway

A flexible platform capable of integrating multiple applets

STSAFE-V500 is a state-of-the-art secure microcontroller family, based on smart card technology, with an Arm® Cortex®-M35P processor for secure embedded systems and additional security features to help protect against advanced forms of attacks.

The multi-application Java Card™ platform offers a full range of solutions with turnkey applets for secure automotive applications and the flexibility to integrate custom applets.

STSAFE-V500 host-client connection diagram



Product portfolio

Order code	OS support	Interface	Certification	Package	Operating Temperature Range
STSAFE-V500	Java® Card 3.0.5	I ² C or SPI	HW CC EAL 6+ and AEC-Q100 grade 2	TSSOP20 or UFQFPN32	−40 °C to 105 °C

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