STeID MTCOS® 2.5

Secure solution for electronic ID and travel documents

A secure and convenient personal identification solution

STeID MTCOS® 2.5 is a secure multi-application smartcard operating system featuring advanced public key authentication.

Fully interoperable with ICAO-based systems, STeID MTCOS® 2.5 enables a wide range of security-sensitive applications, including electronic identification cards, travel documents, and authentication solutions. To ensure accurate and secure ICAO identification of individuals, its large memory enables the storage of a complete set of biometric information—face, finger, iris.

STeID MTCOS® 2.5 is Common Criteria certified: CC EAL 4+ High (BSI-CC-PP 55) for the BAC configuration, and CC EAL 5+ High (BSI-CC-PP 56v2) for the EAC and SAC/PACE configurations.

KEY FEATURES
- High performance ST31 IC
- Dual-core 32-bit Arm® SecurCore® SC000™
- Up to 144 Kbyte user data
- BAC, EAC, SAC/PACE, digital signature
- Common Criteria certified

KEY APPLICATIONS
- ePassport
- eResidence permit
- National eID (government-issued)
- eDriving license / eVehicule registration
- eHealthcare

STANDARDS
- ISO/IEC 7816
- ICAO Doc 9303, BSI TR-03110
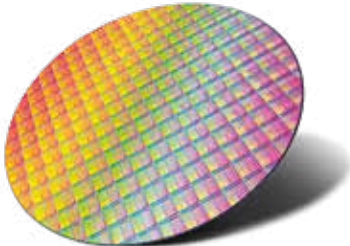- ISO/IEC 18013-3 (eDL)

www.st.com/STeID

STeID Family

STeID MTCOS® 2.5 is part of the STeID family. To offer unparalleled levels of security and performance, the family is based on the ST31 secure microcontroller, which features a dual-core 32-bit Arm® SecurCore® SC000™ (lockstep architecture).

Its secure flash memory brings more flexibility to the supply chain and reduces time to market. The family enables long-lasting identity documents (10+ years) thanks to its non-volatile memory endurance (500,000+ cycles) and data retention (25+ years).

Targeted Applications

	ePassport eResidence Permit	National eID (government-issued)	eDriving license eVehicule registration	eHealthcare
Compliance	ICAO DOC 9303 BSI TR03110	ICAO DOC 9303 BSI TR03110	ISO 18013	
Built-in features	Basic Access Control Active Authentication Extended Access Control Supplemental Access Control/PACE		Basic access protection Extended access protection Active authentication Passive authentication	Pin management (PIN/PUK, Trusted PIN) Certificate management Digital signature Card2Card Authentication
		Digital signature Certificate management PIN management		

Delivery Forms

Wafer	Contactless micromodule	Contact and dual interface 8-pin and 6-pin micromodules	
		 8-pin	 6-pin

About MTCOS and Masktech GmbH

STeID MTCOS® has been developed in close cooperation with Masktech GmbH. The solution leverages the ST31 secure microcontroller family combined with an optimized implementation of the MTCOS software.

MTCOS® is a registered trademark of Masktech GmbH. Masktech is an independent German supplier for the highest security embedded chipsets, operating systems for electronic identification cards, travel documents and authentication solutions. The company supplies more than 30 major passport manufacturers and system integrators and holds a leading position in all its primary product categories. The MTCOS solutions are used in more than 65 countries worldwide.