



STARCHIP SECURE CONTROLLERS FOR PAYMENT MARKET



No compromise in security

To meet the growing demand for payment solutions through EMV technology, StarChip® has developed a broad portfolio of innovative and secured ICs aimed at addressing the payment market from cost-effective SDA to high end Dual DDA solutions. At StarChip®, security is part of our DNA and we help our partners to meet these challenges with high performance, highly-secured Common Criteria products supporting both contact & contactless interfaces.

QUALITY

We build quality into every aspect of our business, and extend our commitment to long-term customer satisfaction through a broad array of support services. StarChip® is proud to offer an IC expert team that is fully dedicated to supporting our customers throughout the entire product lifecycle.

ISO 9001:2008 certified

The right choice for your payment applications

SCB Payment Controllers family

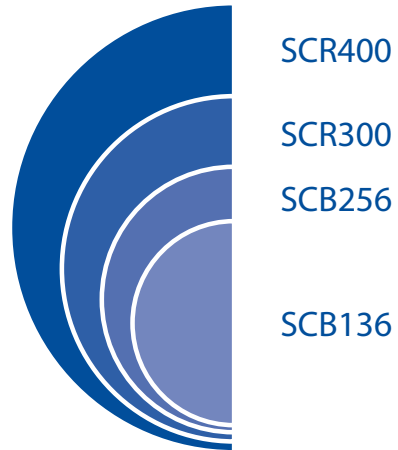
The SCB family is the perfect solution for players seeking a smooth migration towards EMV cards at a reasonable price. This family is tailored to address native and mid-range Java applications with contact interface. The SCB controllers are cost-effective devices targeting EMVco certification. A comprehensive set of development tools, StarBox V2 includes all necessary items to develop high-quality software in a timely and cost effective manner.



SCR PAYMENT CONTROLLERS FAMILY

The SCR family provides highly innovative security features for contact, contactless & dual DDA. This family, based on the most advanced encryption algorithms (PKI/AES/TDES...) and patented ARX 32-bit secure CPU, is tailored to offer powerful secure solutions to enable safe payment transactions. The robust embedded security mechanisms inside ARX CPU provides a comprehensive protection against both Side-Channel and Fault Injection attacks allowing to develop safety applications requiring high levels of security. In addition, the SCR family embeds our in-house secure GAIA technology enabling our chips to detect any unreliable behavior related to attacks and react by locking the system thus ensuring protection of sensitive data. Last but not least SCR family is delivered with the highest security certificates in the industry (EMVCo and Common Criteria EAL5+) bearing testimony of StarChip® commitment to becoming a leading supplier of secure solutions.

FULL COMPATIBILITY ACROSS THE FAMILY



SCR400

SCR300

SCB256

SCB136



PACKAGING

Our Payment controllers can be delivered in wafer form, sawn dice on frame or module.

SCB/SCR PRODUCT DETAILS

Part Number	Clock Freq (MHz)	Flash (KB)	RAM (KB)	Interfaces	Crypto	Endurance	Certification	Application /Misc
SCB136	20	136	4	ISO 7816	AES/TDES accelerators	100K cycles/page	EMVCo	Contact SDA
SCB256	25	256	5	ISO 7816	AES/TDES/PKI accelerators	100K cycles/sector	EMVCo	Contact DDA
SCR300	20	300	8	ISO7816 ISO14443-A	HW/AES/ TDES/ PKI accelerators	100K cycles/sector	EMVCo	Dual DDA
SCR400	33	400	8	ISO7816 / ISO14443-A	HW AES/TDES/ PKI	500K cycles/sector	CC / EAL5+/ EMVCo	Dual DDA

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Global Auto-Immune Architecture



Turbosecure Uploading System



Secure Lifecycle Management



Ultra Low power Integrated Circuit for Secure RF applications



Interoperable RF Interface for Smart Objects

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