SECURE-IC

THE SECURITY SCIENCE COMPANY

SECURYZR™
COMPLETE EMBEDDED SECURITY SYSTEM SOLUTION

BROCHURE
January 2021 - Version 1.1

Z SECURYZR™

PROTECT
COMPLETE EMBEDDED SECURITY SYSTEM SOLUTION

Driven by a unique approach called PESC (Protect, Evaluate, Service & Certify), Secure-IC positions itself as a partner to support its clients throughout and beyond the IC design process from security requirements to certified solutions in providing them with best-of-breed, end-to-end cybersecurity solutions for embedded systems and cloud connected objects.

FOR WHOM?

Chipset / Device Vendors

IC Design Houses

Certification Labs

Governmental Agencies

FOR WHICH MARKETS?

AUTOMOTIVE	AIOT & EDGE	eHEALTH	DEFENSE & INDUSTRY
PAYMENTS & TRANSACTIONS	IDENTITY	MEDIA & ENTERTAINMENT	MEMORY & STORAGE
SMART GRID	CONSUMER ELECTRONICS	EDGE & CLOUD	TRUSTED COMPUTING

OUR VISION
ONE DAY, SECURITY WILL BE WORTH MORE THAN DEVICES

Going forward, there will be more and more interconnected devices or objects in various market verticals, this is what we call the Internet of Things or Internet of Everything.
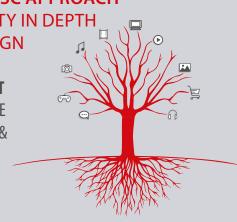All those objects being interconnected to the cloud, each and every object could be a threat for the whole network. Therefore, the security of the objects or the devices and their lifecycle management are key.

OUR PESC APPROACH
SECURITY IN DEPTH BY DESIGN

- **P**ROTECT
- **E**VALUATE
- **S**ERVICE &
  CERTIFY

Securyzr™ provides a complete set of technologies to make your design attack-resilient:

SECURYZR™ iSE

The ultimate combination of Secure-IC's core technologies and expertise results in Securyzr™ iSE. Securyzr™ iSE provides a complete range of security features while addressing all the state-of-the-art threats against embedded systems. Securyzr™ iSE is customized according to the specific requirements of each market and each client.
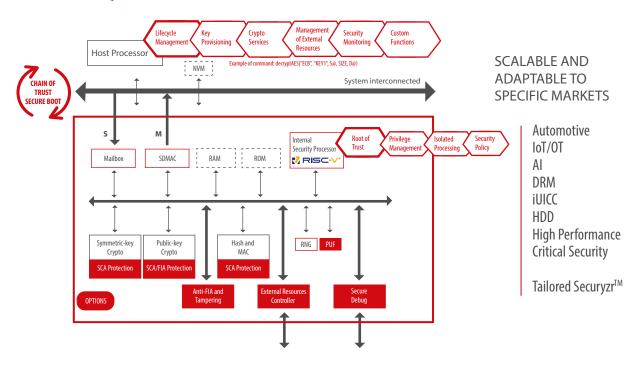
SECURITY IPs

Secure-IC provides individual silicon security IPs to provide SoC with protection solutions against state-of-the-art remote and physical attacks. This includes cryptographic IPs, root-of-trust and reverse engineering protection IPs, protection against physical attacks, as well as innovative technologies such as Artificial Intelligence for security monitoring and CPU cybersecurity IPs.
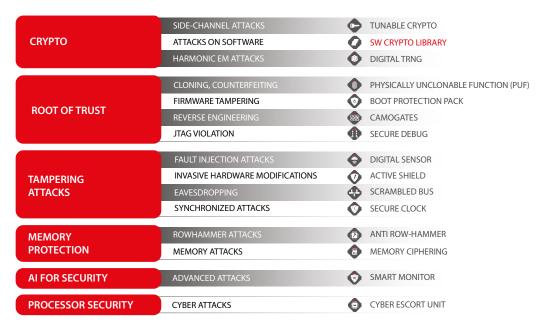
SOFTWARE SOLUTIONS

Secure-IC provides value-added software solutions to secure applications in various markets. This includes cryptographic libraries, upper layer protocol engines and secure communications libraries.

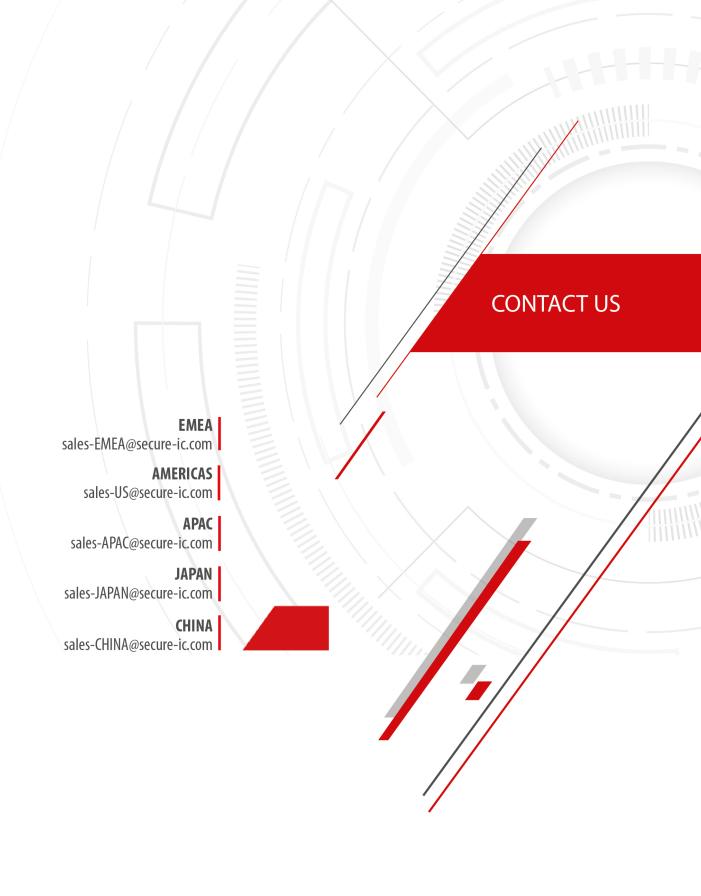# ALL THE SECURITY YOU NEED IS INCLUDED IN A UNIQUE PRODUCT

SCALABLE AND ADAPTABLE TO SPECIFIC MARKETS

Automotive
IoT/OT
AI
DRM
iUICC
HDD
High Performance
Critical Security

Tailored Securyzr™

A COMBINATION OF CUSTOMIZABLE AND ROBUST SECURITY IPS TO ADDRESS A LARGE PANEL OF THREATS

CRYPTO	SIDE-CHANNEL ATTACKS	TUNABLE CRYPTO
	ATTACKS ON SOFTWARE	SW CRYPTO LIBRARY
	HARMONIC EM ATTACKS	DIGITAL TRNG
ROOT OF TRUST	CLONING, COUNTERFEITING	PHYSICALLY UNCLONABLE FUNCTION (PUF)
	FIRMWARE TAMPERING	BOOT PROTECTION PACK
	REVERSE ENGINEERING	CAMOGATES
	JTAG VIOLATION	SECURE DEBUG
TAMPERING ATTACKS	FAULT INJECTION ATTACKS	DIGITAL SENSOR
	INVASIVE HARDWARE MODIFICATIONS	ACTIVE SHIELD
	EAVESDROPPING	SCRAMBLED BUS
	SYNCHRONIZED ATTACKS	SECURE CLOCK
MEMORY PROTECTION	ROWHAMMER ATTACKS	ANTI ROW-HAMMER
	MEMORY ATTACKS	MEMORY CIPHERING
AI FOR SECURITY	ADVANCED ATTACKS	SMART MONITOR
PROCESSOR SECURITY	CYBER ATTACKS	CYBER ESCORT UNIT

SECURE-IC'S EXPERIENCE

- 1 Billion+ IP per quarter
- 100+ customers worldwide
- Silicon-proven with the thinnest technology nodes:
  - TSMC, GF, Samsung, SMIC, HH GRACE, ST, UMC, MAGNACHIPS
  - 130nm, 65nm, 55nm, 40nm, 28nm, 16nm, 12nm, 10nm, 7nm, 5 nm
- Embedded in multi-certified products:
CMVP (FIPS 140-2), Common Criteria up to EAL5+, OSCCA, BCTC and more.

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