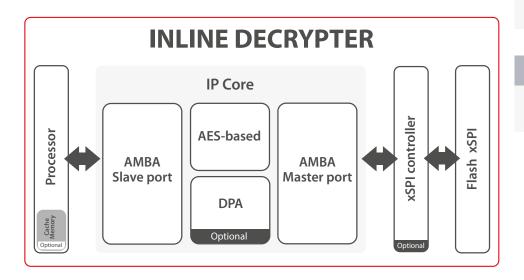


Securyzr™ > Securyzr™ Secure HW Solutions > Securyzr™ Security IP > Tunable Crypto > Memory Protection > SCZ_IP_MP_Ide

INLINE DECRYPTER

The Inline Decrypter IP Core enables on-the-fly execution of encrypted code from Flash. It is often used to protect the source code from decompiling or reverse engineering.

This solution includes a highly optimized implementation of the Advanced Encryption Standard (AES) algorithm. The IP can be packaged optionally with a xSPI Controller. With the Inline Decrypter IP Core, our customers can take advantage of our expertise in ASIC and FPGA design, cryptography & security applications and the development & integration of re-usable cores & high-level IP solutions. DPA countermeasures option is available for applications requiring higher level of security with a very good protection against SPA (Simple Power Analysis) and DPA (Differential Power Analysis).



Features

- XIP (eXecution In Place) of encrypted code directly from Flash (Optional xSPI controller)
- Decryption based on AES fully compliant with NIST FIPS 197
- AMBA Master/Slave interfaces
- Scalable solution (trade-off between performance vs. gate count)
- SPA/DPA countermeasures (optional)
- ✓ Supports all key sizes (128/192/256 bits)
- ASIC and FPGA

Applications

 Protects the source code from decompiling or reverse engineering (ideal for MCU's)

Implementation aspects

The unique architecture enables a high level of flexibility. The throughput and features required by a specific application can be taken into account in order to select the most optimal configuration for any FPGA or ASIC technology. The single RTL database for all configurations is a guarantee of reliability and integration is made very easy due to standard interface (AMBA AHB).

Deliverables ✓ Netlist or RTL ✓ Scripts for synthesis & STA ✓ Self-checking RTL test-bench on referenced vectors ✓ Documentation

V4.0





HEADQUARTERS

Digital Park B - ZAC Atalante Via Silva 801 avenue des Champs Blancs 35510 Cesson-Sévigné - France +33 (0)2 99 12 18 72 - contact@secure-ic.com