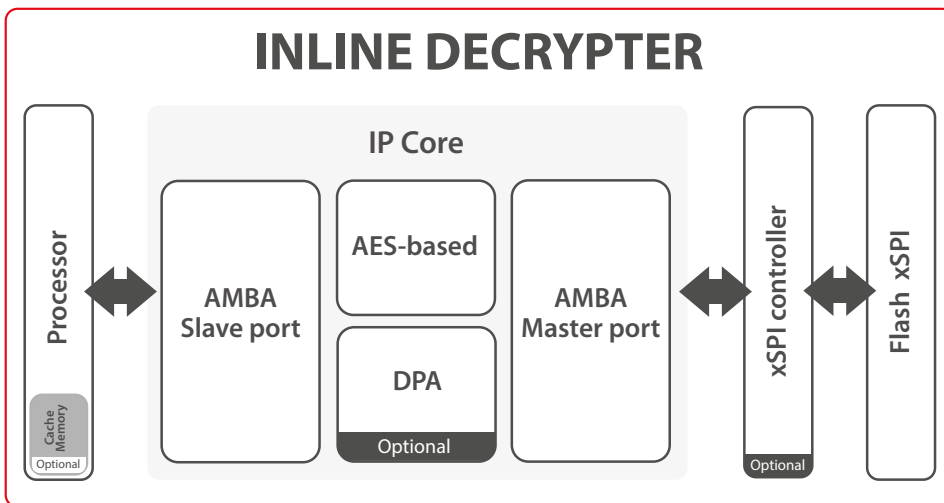


INLINE DECRYPTER

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

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