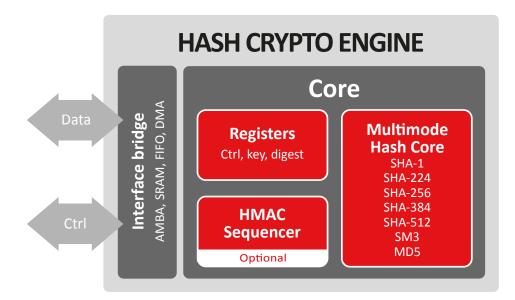




HASH CRYPTO ENGINE

The Hash Crypto Engine is flexible and optimized hash IP core compliant with FIPS 180-3 (HASH functions), FIPS 198 (HMAC function) and OSCCA (SM3).

With a flexible wrapper supporting a wide selection of programmable hashing modes (SHA-1, SHA-224, SHA-256, SHA-384, SHA-512, SM3 and MD5) with HMAC and several options of data interface, the Hash Crypto Engine is an easy-to-use solution with predictable resources and performances on ASIC and FPGA.



Features ASIC and FPGA Supports: • SHA-1 • SHA-224 • SHA-256 • SHA-384 • SHA-512 • SM3 • MD5 Supports HMAC Message padding in software or hardware Low power feature Data interface: AMBA (AHB/AXI) with optional DMA Ontrol interface: APB/AXI4-lite **Applications** Digital signature

Key derivation

Implementation aspects

The Hash Crypto Engine is easily portable to ASIC and FPGA. It supports a wide range of applications on various technologies. 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 and compact configuration.



V1.2

Silex Insight

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