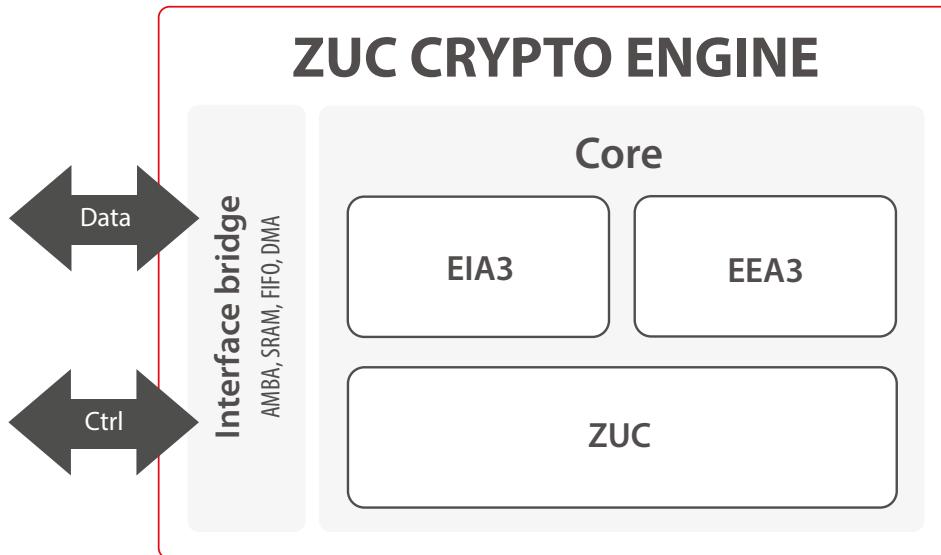


Securyzr™ > Securyzr™ Secure HW Solutions > Securyzr™ Security IP > SCZ_IP_BA421

ZUC CRYPTO ENGINE

The ZUC IP core is 3GPP confidentiality and integrity algorithms (EEA3/EIA3) stream cipher for telecommunication applications, requiring high performance with reduced silicon resources. It is optimized for maximum throughput and minimum latency.

The unique architecture enables a high level of flexibility. The throughput and features unique to each application can be taken into account in order to select the most optimal configuration of the implemented IP.



Features

- ✓ ASIC and FPGA
- ✓ ETSI specifications & OSCCA compliant
- ✓ Supports:
 - EEA3 (confidentiality)
 - EIA3 (integrity)
- ✓ Data interface: AMBA (AXI/AHB) with optional DMA
- ✓ Control interface: APB/AXI4-lite

Applications

- ✓ 3GPP mobile telephony (GSM, UMTS, LTE, 5G)
- ✓ Secure mobile communications

Implementation aspects

Standardized AXI-4 and AHB (optional) I/O simplify system integration. All our IP cores are delivered with software drivers to simplify ASIC or FPGA integration.

We are also offering other 3GPP IP cores, such as **KASUMI** (SCZ_IP_BA422) and **SNOW3G** (SCZ_IP_BA423).

Deliverables

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

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