

# IP solutions for ASIC and FPGA

Silex Insight design expertise is made available through a wide portfolio of Intellectual Property (IP) cores, with a strong focus on high performance standardized image/video codecs, and embedded security solutions.

All of the following IP cores have been designed and validated by Silex Insight. They are the fastest and most efficient way to integrate complex functionalities into your design. They are silicon-proven, which guarantees high IP quality. For most of the IP cores, we provide simulation models and design kit. Silex Insight also provides the best support during the integration within your project.

## Embedded security

- |                                    |               |
|------------------------------------|---------------|
| ▪ eSecure embedded security module | BA470         |
| ▪ Cryptographic co-processor       | BA450         |
| ▪ Public Key IP core               | BA414EP       |
| ▪ TRNG IP core                     | BA431         |
| ▪ AES multi-purpose IP core        | BA411E        |
| ▪ AES-GCM IP core                  | BA415         |
| ▪ AES-XTS IP core                  | BA416         |
| ▪ SHA-1/2/3 IP core                | BA413/418     |
| ▪ CHACHA20/poly1305 IP core        | BA417         |
| ▪ 3GPP security IP cores           | BA421/422/423 |
| ▪ DES/3-DES IP core                | BA412         |



## Video and image compression

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|---------------------|-------|
| ▪ JPEG 2000 Encoder | BA110 |
| ▪ JPEG 2000 Decoder | BA109 |
| ▪ JPEG Encoder      | BA116 |
| ▪ JPEG Decoder      | BA115 |
| ▪ VC-2 HQ Encoder   | BA140 |
| ▪ VC-2 HQ Decoder   | BA141 |
| ▪ MPEG-2 decoder    | BA119 |



## Interface IP cores

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|---|-------|
| ▪ High performance FPGA memory controller | BA317 |
| ▪ PCIe end-point DMA for FPGA             | BA611 |



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