

PRODUCT SHEET

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INLINE DECRYPTER & AUTHENTICATOR FOR AUTOMOTIVE

The Inline Decrypter and Authenticator IP core enables on-the-fly execution of encrypted and signed code from Flash. It is used to authenticate and decrypt code located in Flash. In addition it is ISO26262 certified (ASIL-D).



This solution manages multiple regions with software encrypted and signed with different keys. It includes a cache of configurable size and supports AHB interfaces

With this 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 available for applications requiring higher level of security with a very good protection against SPA (Simple Power Analysis) and DPA (Differential Power Analysis).



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 liability and integration is made very easy due to standard interface (AMBA AHB).



We are also offering the inline decrypter and authenticator for other applications (i.e. industrial, defence...). For more detailed information, please contact us.

Our memory protection portfolio:





HEADQUARTERS

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