Product Datasheet

Media Protection

Irdeto Premium Card

- THE FUTURE-PROOF, RENEWABLE SMART CARD FOR ALL PAY TV SERVICES

The Irdeto Premium Card is the next generation security client of the Irdeto conditional access system (CAS) that can be completely and rapidly updated in the field, allowing operators to respond quickly to threats and extend the card lifetime for as long as possible. It employs advanced hardware and software designs to achieve this renewability:

- Flash-based memory, enabling 100% of the conditional access (CA) code to be renewed over the air via the Irdeto FlexiFlash technology
- High-end, Common Criteria EAL5+ certified processor with built-in mechanisms to guard against card attacks
- Operator-specific memory section on the card, allowing operators to apply only the security and/or feature updates desired

In the latest Irdeto CAS platform, asymmetric cryptography is used, requiring a private and public key pair for authentication. The private key is generated by and kept secure in the Irdeto Premium Card, thus it is never exposed externally to eliminate theft. Only the public key is sent to the Irdeto head-end systems. Breaching the security becomes significantly more difficult, as both the head-end and the client must be compromised to obtain the cryptographic key pair.

KEY BENEFITS

BEST-IN-CLASS, RENEWABLE SECURITY

The CA software on the Irdeto Premium Card can be completelyand rapidly updated over the air to respond to unforeseen threats, making the card a moving target for pirates. As part of the Irdeto CAS, it also provides the following additional security benefits:

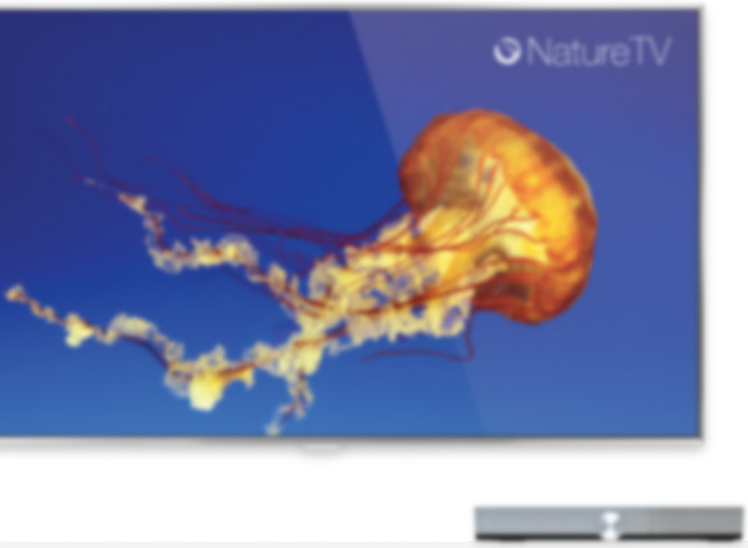
- Future-proof algorithm, providing equivalent security as traditional cryptosystems while consuming less bandwidth
- A unique proprietary cryptographic layer peroperator with algorithm cycling, preventing a security threat from spreading across operators
- No single point of failure as a breach requires extracting keys from both the head-end and the client
- Ease of key cycling with minimum impact in the event of a head-end breach

FLEXIBLE DEPLOYMENT MODELS

The Irdeto Premium Card can be used in both existing and new Irdeto-approved devices, simplifying deployment and management.

A VARIETY OF PAY TV SERVICES

The Irdeto Premium Card supports a variety of pay TV services today, and can be easily and indefinitely updated in the future to enable operators to offer new revenue-generating services.



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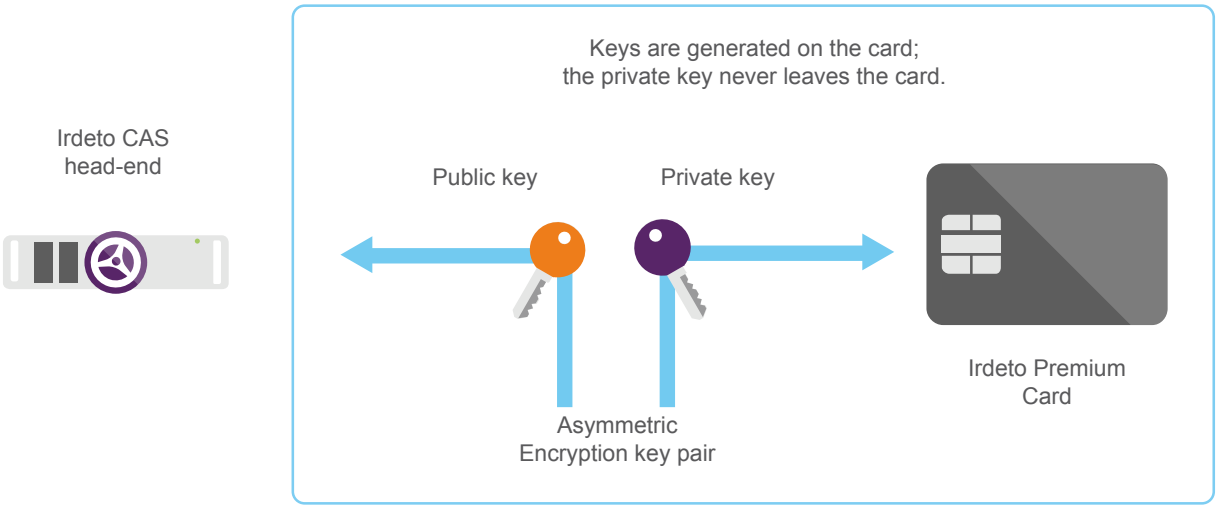
The Irdeto Premium Card, in combination with the Irdeto CA devices at the head-end, provides the operator with the highest level of security for content protection on the market today. In addition, it enables the operator to adapt and respond to future trends with ease by delivering unparalleled renewability in a smart card.



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