# UNIQ ©

FOR SMART CARD & SMART TICKET



## UniQ is a contact and contactless low

## Costs IC securing payment, light identity or ticketing systems



Cost Effective



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Secure Data
Transmission
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Easy Integration



Contact & RF Interface



Support for product integration

UNIQ is a micro-controller technology providing **secure data memory** and **fast transaction e-purse**. Configurable either in contact or contactless, **UniQ** provides simplicity of use with two different partition types allowing Data protection and Secure Purse transactions.

Embedded into smart card, ticket or label, UNIQ chip technology permits to provide a low cost solution for public transportation, access management, close-loop money and light identity.

QILIUM recommends, in case security or structure flexibility is a major concern, existing UNIQ systems to upgrade to the latest QILIUM products: MULTIQ, JAVIQ or SWIPE'N TRUST with latest security features and Common Criteria certified platform.

#### MAIN FEATURES

- Memory size from 2Kb to 115 Kb
- > 1 to 15 Flexible Partitions of variable size
- > 8 bytes Global PIN at card level
- ➢ Partition:
  - **Data** : Up to 64 Kbytes
    - Read and Write Key
  - Purse: Up to 255 records of up to 251 bytes Increase and Decrease Key
- > AES-16 Secure Messaging
- Anti-Tearing System
- Communication protocol:

P1 (DATA or PURSE)

Read/Decrease PIN1 Write/Increase PIN2

PUK1 / PUK2

AES Key

- ISO/IEC 7816-3 | **T=0**
- ISO/IEC 14443-A/-B | **T=CL**

#### MAIN SECTOR

- > Company card
- Public transportation
- > Car parking
- Toll collection
- > University campus card
- > Loyalty card

#### **APPLICATIONS**

- Light identity
- > Access control
- Close-loop money
- > Ticketing
- Data storage and protection

#### STRUCTURE

### Global PIN/PUK, AES Key

P2 (DATA or PURSE) Read/Decrease PIN1 Write/Increase PIN2 PUK1 / PUK2 AES Key

#### P15 (DATA or PURSE)

Read/Decrease PIN1 Write/Increase PIN2 PUK1 / PUK2 AES Key

> Gilium Smartcard Technology

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