UNIQ ©

SECURE MEMORY
FOR SMART CARD & SMART TICKET

UniQ is a contact and contactless low

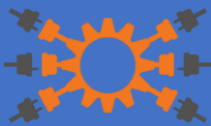# Costs IC securing payment, light identity or ticketing systems

Cost Effective

Secure Data Transmission

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:
  - 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

P1 (DATA or PURSE)	**P2 (DATA or PURSE)**	**P15 (DATA or PURSE)**
Read/Decrease PIN1	Read/Decrease PIN1	Read/Decrease PIN1
Write/Increase PIN2	Write/Increase PIN2	Write/Increase PIN2
PUK1 / PUK2	PUK1 / PUK2	PUK1 / PUK2
AES Key	AES Key	AES Key

Qilium
Smartcard Technology