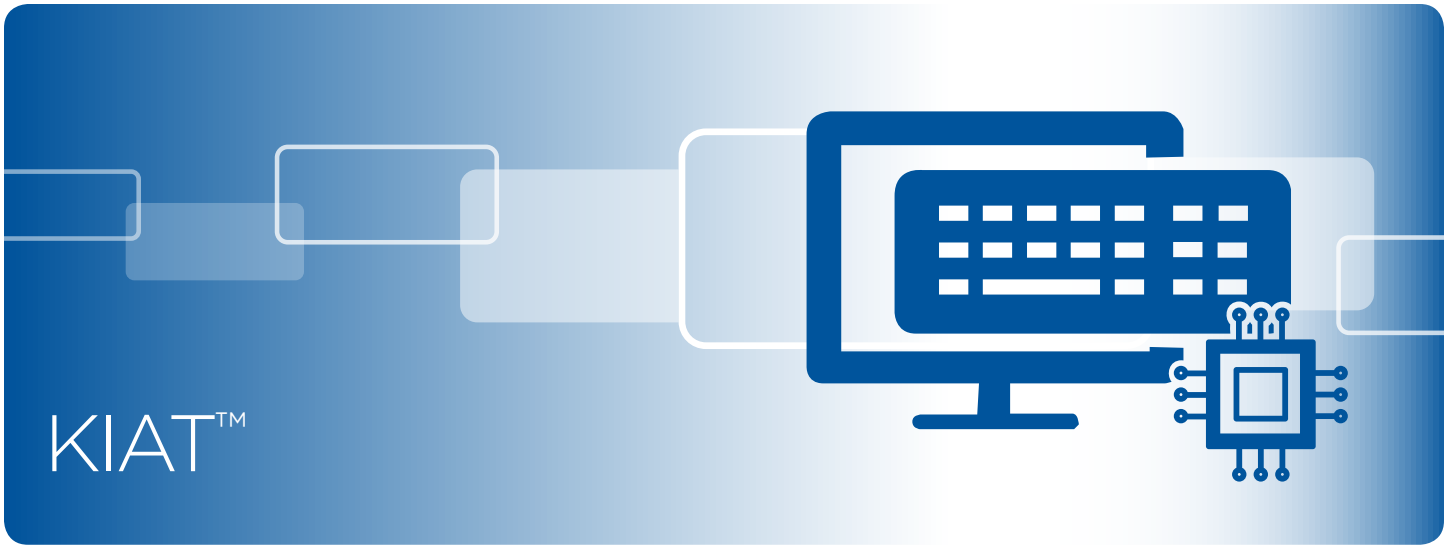
TICKETING & TRANSPORT MULTI-APPLICATION SOLUTIONS



TYPICAL APPLICATIONS:

- **Transportation**
- **Loyalty**
- **Access Control**
- **Multi-application**

FAST, SMALL AND SECURE

HID Global has over 15 years of comprehensive experience in transportation chip operating system. KIAT™ is an operating system for multifunctional smart cards, usable for local public transport, based on the most important international standards.

MAIN FEATURES

- ISO 7816-4 compliant data structure
- Active authentication / PIN
- Transaction Management
- Secure Messaging
- Secure proprietary e-Purse
- Roll back functionality

COS CRYPTOGRAPHIC ALGORITHMS

- Cipher: DES (TDES, DESX) ECB-CBC
- Signature: DES MAC8
- MAC: ISO 9797, ISO 10118
- Checksum: CRC16/CRC32
- Random number: Secure Random
- DES Key sizes: up to 120-bit

COMMUNICATION PROTOCOLS

- Contact ISO 7816 up to 192 kbps (T=0)
- Contactless ISO 14443 type B up to 848 kbps

SECURE MICRO-CONTROLLER

- 8-bit CPU with 2 KB of RAM
- 8 KB user EEPROM
- Symmetric cryptography (DES, AES)
- Enhanced DES accelerator
- Security firewalls for memories
- Very high security features
- Unique chip identification
- EAL5+ Common Criteria certification

AVAILABLE PRODUCTS

- Contactless modules
- Contact modules
- Dual-interface modules
- Polycarbonate, PVC & PET contactless inlays for cards
- White and pre-printed smart cards (PVC, PET, PC)
- Other form factors

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ISO 9001
ISO 18001
ISO 14001

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*Complete product specifications upon request.