SECURE ELEMENTS & AUTHENTICATION ICs FOR AUTOMOTIVE APPLICATIONS

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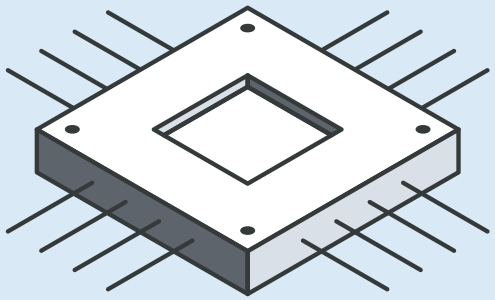
TECHNOLOGY SUITABILITY

Physical Security
- Tamper resistance
- Hardware isolation

Secure Elements
- Multi-purpose

Cryptographic Material
- Secure storage
- Secure management



Supported Applications
- Secure boot
- Authentication
- Identification

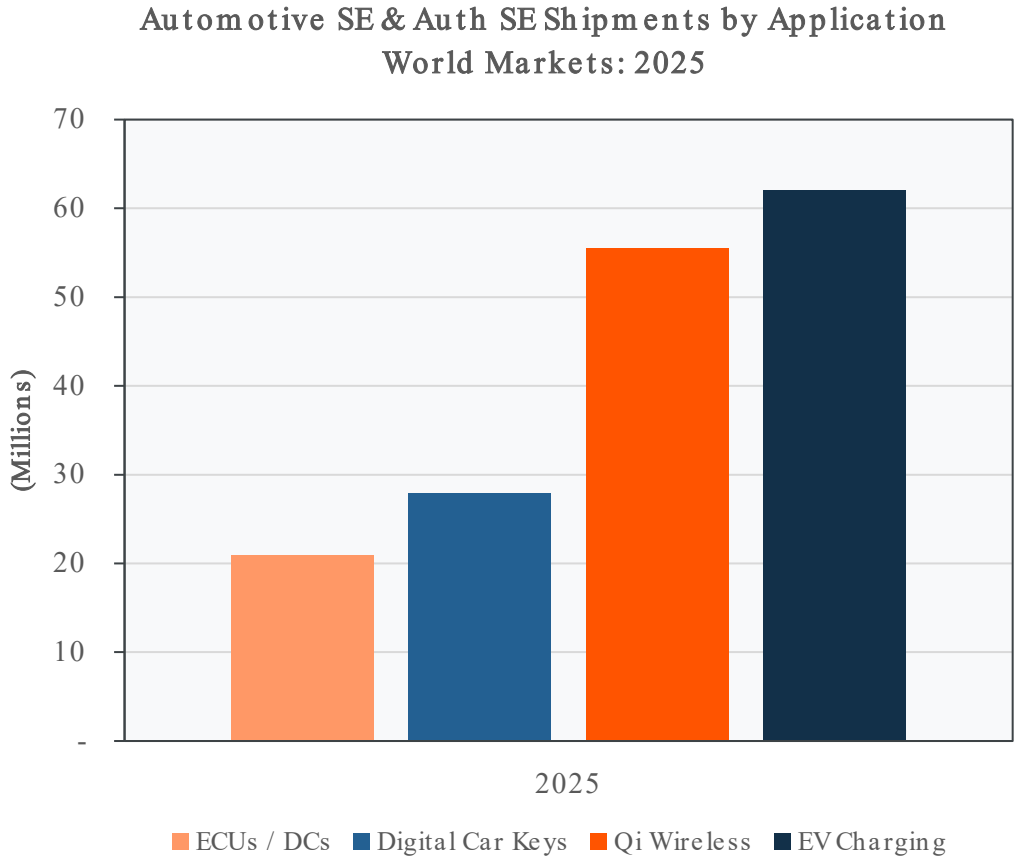
Authentication IC
- Single application

Certification
- CC EAL4+
- AEC-Q100

Capabilities
- Flexible
- Updatable

AUTOMOTIVE APPLICATIONS

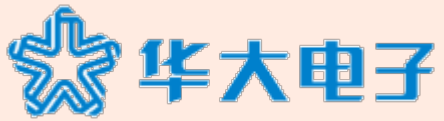
1. **Electric Vehicles**
   - ISO 15118 Plug and Charge standard
   - Open Charge Point Protocol
2. **Wireless Charging Pads**
   - WPC Qi Wireless specification (1.3+)
3. **Digital Car Keys**
   - CCC Digital Key specification (3.0)
   - China ICCE & ICCOA
4. **Electronic Control Units (ECUs)/Data Centers (DCs)**
   - Advanced Driver-Assistance Systems (ADAS), Battery Management Systems (BMS), in-vehicle communications, Vehicle-to-Everything (V2X)



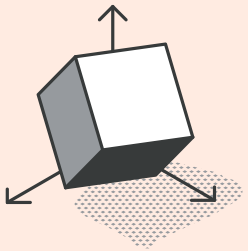
VENDOR ECOSYSTEM

Global

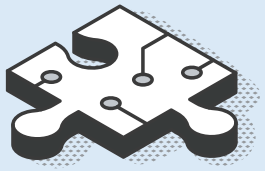
China



MARKET OUTLOOK



Dynamic & fast-growing market



Good functionality & flexibility

Boosted by new industry specification

High applicability for functional safety

THANK YOU

Michela Menting, Senior Research Director

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