

VaultIC408 for EV Charging Station

Ready-to-use Secure Element to build ISO15118 (Plug & Charge) compliant Electric Vehicle (EV) Chargers. Personalized with a unique and universally trusted digital identity. Provides state-of-the-art security features for EV charging ecosystem: Secure communication for OCPP, Secure Firmware update and Encryption.



End-to-End Security



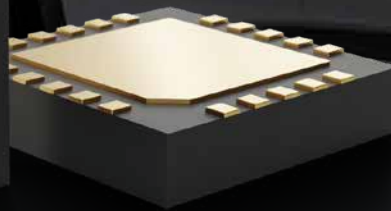
**FIPS 140-3
Certified**



Fast time-to-Market



Pre-provisioned



Visit us

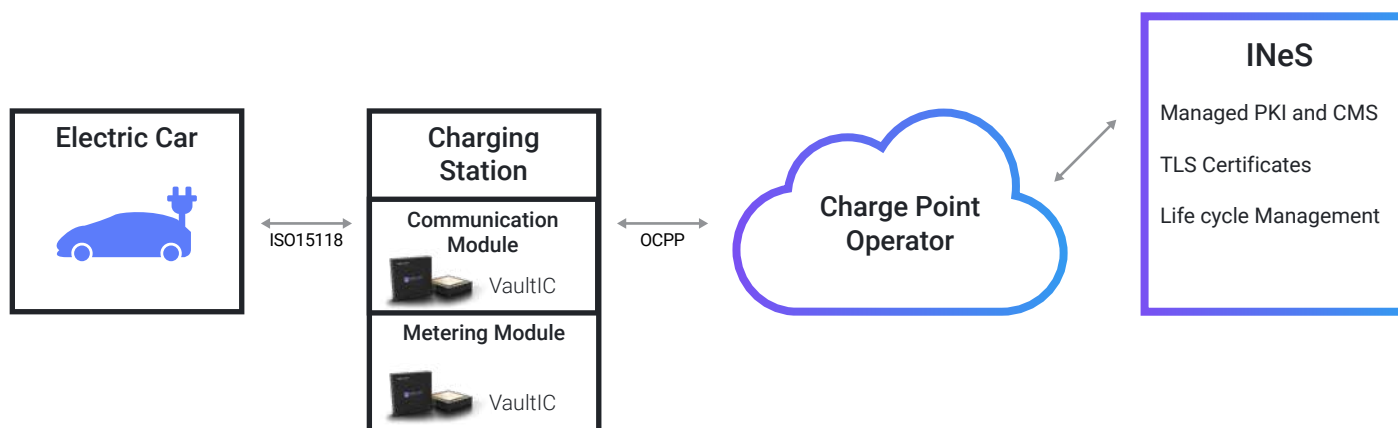
They trust us



VESTEL



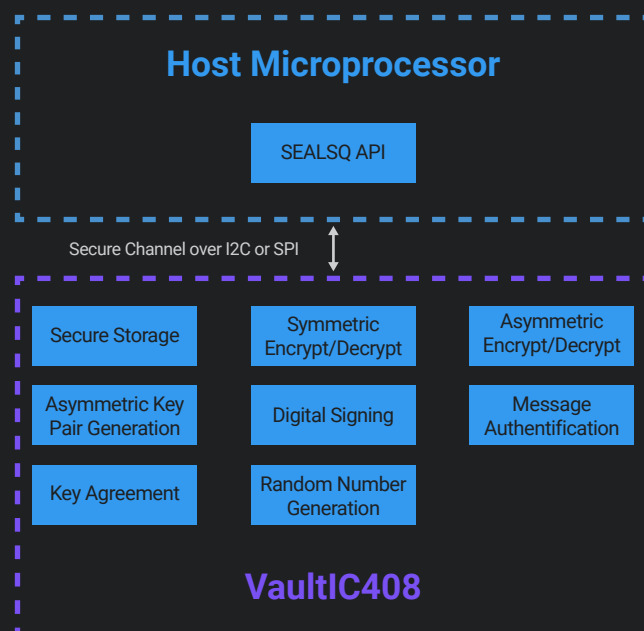
EV Charging Use Case



- Provide Enterprise Grade Security
- Support TLS Protocol
- Secure assets and keys in storage
- Provide Secure Identity
- Provide Device Authentication
- Provide True Random Number for cryptographic operations SP800-90B
- Provide a Secure Platform
 - Secure Boot
 - Secure Firmware Update

Key Features

- FIPS140-3 Level 3 CMVP
- CC EAL5+ ready
- True RNG: NIST SP 800-90B
- SPI and I²C interfaces
- 16K File System
- Hardware AES 128/192/256 bits
- GCM/GMAC
- RSA® up to 2048 bits
- ECC up to 576 bits
- CRC16 and 32 Engine (ISO/IEC 3309)
- Hardware Protection Against SPA/DPA/SEMA/DEMA attacks
- Advanced Protection Against Physical Attacks
 - Voltage Monitoring
 - Frequency Monitoring
 - Temperature Monitoring



VAULTIC408-xxx-Z
VAULTIC-STK22-408Z

QFN20 Package
Starter Kit for QFN20