

# VaultIC408 for Smart Grid

VaultIC408 provides all cryptographic algorithms and tamper resistant storage to provide state-of-the-art security features for smart grid devices : Immutable digital identity, Secure communication, Firmware download, Encryption and more...



**End-to-End Security**



**Certified**



**Fast time-to-Market**



**Flexible**

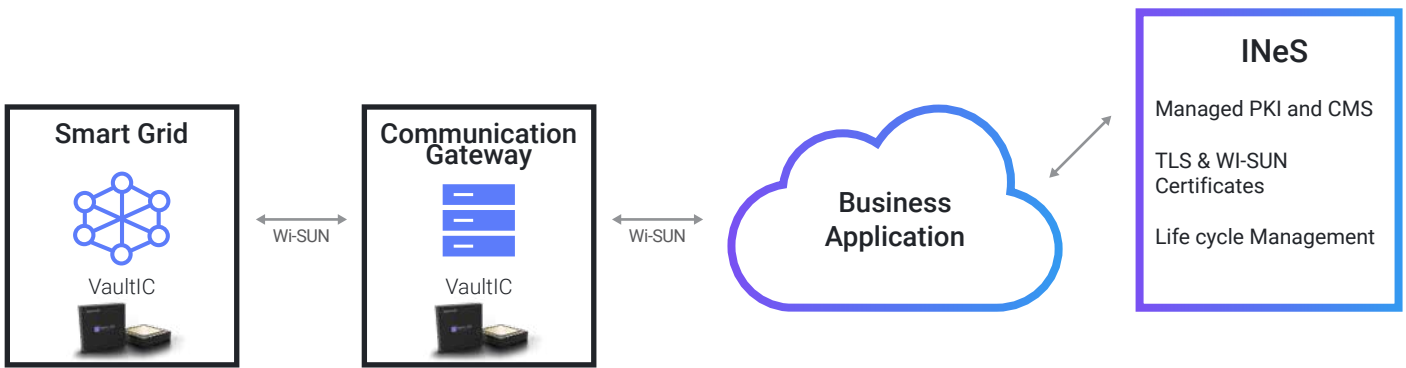


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**They trust us**



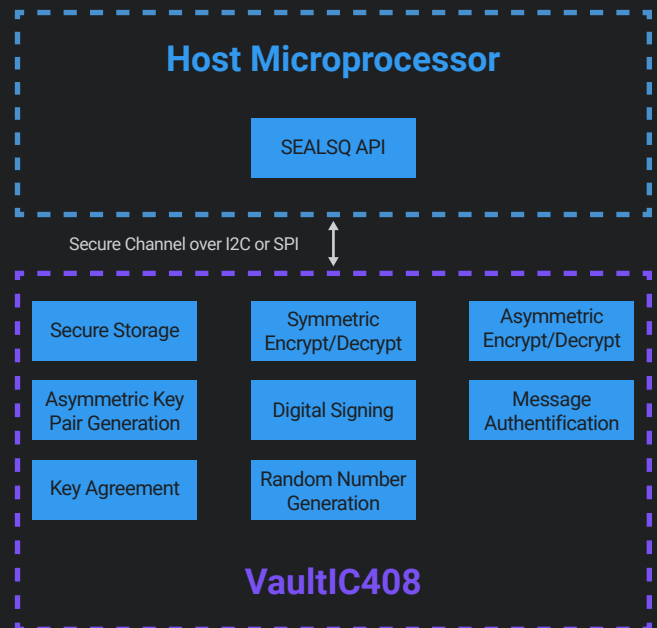
# Smart Meters Use Case



- 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 slave and I<sup>2</sup>C 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-R  
 VAULTIC408-xxx-Z  
 VAULTIC-STK22-408R  
 VAULTIC-STK22-408Z

SOIC8 Package  
 QFN20 Package  
 Starter Kit for SOIC8  
 Starter Kit for QFN20