

kvSoftKey

Secure By Design

Integrate secure and reliable
RoT module into device MCU



As AIoT and Edge Computing evolve, industries face growing security challenges with the rapid expansion of connected devices. Reliable authentication and data protection are essential to safeguard IoT device assets and privacy.

kvSoftKey, powered by SRAM PUF technology, is a software-based security module that seamlessly integrates into the MCU, eliminating the need for additional hardware. It provides each endpoint device with a unique and reliable identity, significantly reducing costs and lead times. Smart Home, Smart Factory, Smart City IoT Devices, and V2X Devices.

kvSoftKey is a pioneering solution for securing your devices.

kvSoftKey Features

- Supports Various MCUs
- Utilized Existing MCU SRAM To Generate RoT
- Provides A Unique Device Key
- Support SP-800 90B (Random Number Generator)
- Supports ECC/AES (Key Generation & Computation)
- Protects Application Keys
- Supports Certificate & Signature Verification
- Operating Temperature: -55 to 150°C

kvSoftKey Applications

- Unique ID/ Key
- Authentication Protection
- Device Attestation
- Secure Boot
- Secure Firmware Update
- Data Storage Protection
- Encrypted Data Transmission

