

## RA Ecosystem Partner Solution ECOLUX thingsPKI FEPS - Firmware Encryption & Protection Service



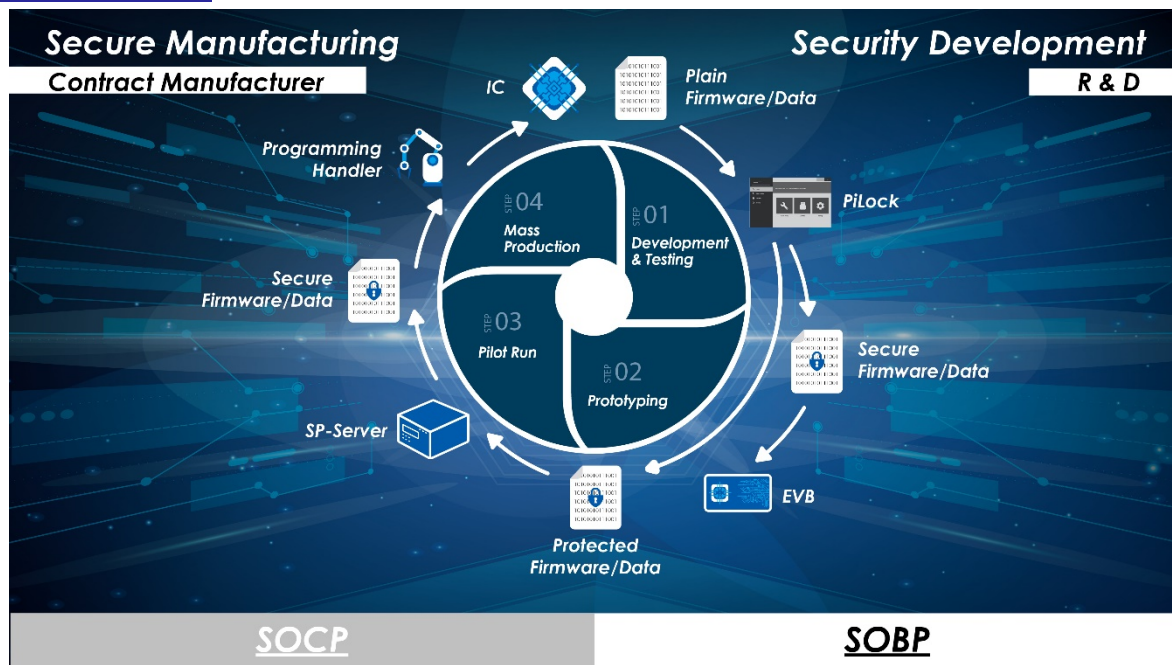
### Solution Summary

FEPS protects firmware from being stolen, cloned or reverse-engineered. With PiLock, ECOLUX's intuitive firmware protection tool, protected firmware can be generated with just a couple of mouse clicks. FEPS provides the total solution to secure the lifecycle of firmware IP from development and testing, prototyping to pilot run and mass production. Out-of-box support is now available for the [family of MCUs](#).

### Features/Benefits

- High Confidentiality: SHA-256, AES-256, RSA-2048
- High Integrity: Dual Secure Boot
- High Availability: Accelerate time to market
- Firmware protection within 10 minutes
- Lifecycle Security

### Diagrams/Graphics



### Target Markets and Applications

- Industrial Automation
- IoT Devices
- Embedded Medical Devices
- Home Appliance
- Smart Buildings

**ECOLUX** is a world-leading AIoT security service provider who collaborates closely with top semiconductors and develops advanced technologies to prevent knockoffs and reduce the risk of intrusion.

**thingsPKI™** is a security brand of ECOLUX that has successfully transformed the complex security technologies into 1-2-3 easy-to-adopt solutions, which enhances the security of IoT devices and accelerate their time to market as well.

### Company Profile

- Established: Mar. 24, 2014
- Founder & CEO: Steve Lai, Ph.D.
- Capital: TWD 62,500,000
- Headquarter: Hsinchu, Taiwan
- Branch: Southern Taiwan Science Park, Taiwan

### 1 Tool for Security Development

- PiLock

### 2 Equipments for Secure Manufacturing

- SP-Server
- SP-HSM

### 3 AIoT Security Services

- DIMS: Device Identity & Management Service
- FEPS: Firmware Encryption & Protection Service
- SOTA: Secure Over-The-Air Firmware Update