

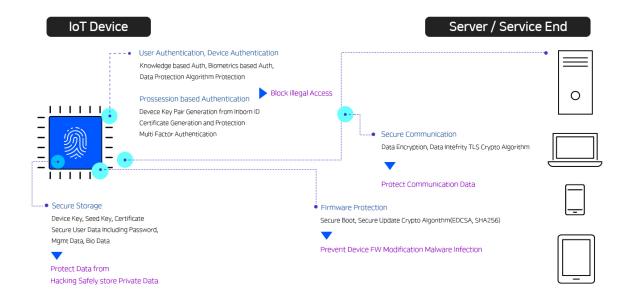
IoT Security



IoT Device major Security Issues	Requirements	Solutions
Illegal device Unusual access	Blocking device duplication and illegal access	Certification
 Device F/W falsification & malicious code injection 	Device F/W security enhanced	Secure boot / secure update
• Data tampering	Strengthen network security	Communication data security (data integrity, data encryption)
• Data breach	Reliable Root of Trust	Secure storage
	Dataless	Inborn ID

IoT Device major Security Issues	Requirements	Solutions
Illegal Device Unusual access Device F/W falsification & malicious code injection Data tampering & breach	Use of secure cryptographic algorithms	ECC 256 AES 128 SHA 256
• Physical attack	Micro-probing, protection from physical attacks such as side-channel attacks	Equipped with PUF- based physical protection and defense solution







Keys, Certificates, Crypto Accelerators

Key and certificate generation by H/W block in Cloneproof Secure IDbased security chip, Crypto algorithm supported by H/W



Secure Inborn ID

Provides a service platform using
UUID Secure Inborn ID such as
non-replicable fingerprints based
on Chip's unique HW characteristics



Secure Storage

Secure data storage through secure storage encrypted based on physical security key (key, certificate, user data)