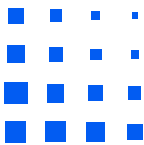


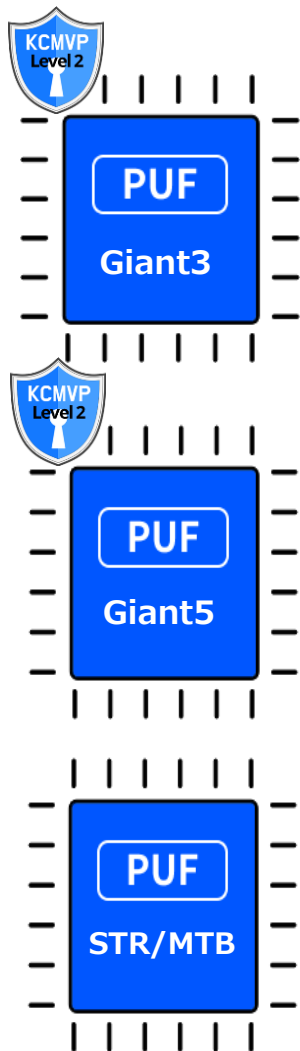
デバイス製品



Security for Quantum Era

PUF チップ							
Features		G1(EOL)	G3	G5	G5 eSIM/USIM	STR	MTB
Crypto Features	Symmetric Crypto. Algorithm		AES128	AES128/256	AES128/256	AES128/256	
	Asymmetric Crypto. Algorithm		ECC 256	ECC 256 RSA 2048	ECC 256	ECC 256/384	ECC 256(ECDSA)
	Post Quantum Crypto. Algorithm			ML-KEM ML-DSA	ML-KEM ML-DSA		
	Hash	SHA256	SHA256	SHA256, SHA3	SHA256	SHA256/384	SHA256
	RNG	TRNG	DRBG, TRNG	DRBG, TRNG	DRBG, TRNG	DRBG, TRNG	DRBG, TRNG
Interface		I ² C, OWI	I ² C, SPI	I ² C, SPI	ISO 7816, I ² C	I ² C	OWI
User Memory		5 kbits	15.1KB	43KB	5KB	Total eflash : 48KB	Total eflash: 16KB
Package		8pin uDFN 8pin SOIC 3pin SOT23	8pin uDFN	12pin DFN	8pin MFF2 12pin DFN USIM	8pin USON	6-Lead package (1.5 x 1.2)
Operating Voltage		3.3v	1.8~3.3v	1.8~3.3v	1.8~3.3v	1.8~3.3v	1.2~1.8v
Low Power Consumption		Idle: 200 uA Sleep: < 20 nA	Idle: 2 mA Sleep: 2 μA	Idle: 0.6 mA Sleep: 2 μA	Sleep: 2 μA	Sleep : 90uA Deep Sleep: < 50nA	TBD
Operating Temperature		-40°C to 85°C	-40°C to 105°C	-40°C to 105°C	-40°C to 105°C	-40°C to 105°C	-40°C to 85°C
Application		Firmware Protection	M2M Authentication IoT	IoT & Internet Devices	SIM (IoT/Industry)	M2M Authentication IoT	Battery Authentication

完成品



Wi-Fi/Combo Module

- Secure IoT Module with WiFi & BLE
- 2.4GHz / UART, I2C, PWM, ADC, GPIO
- 27mm * 20mm * 24mm / 20 pin
- AWS IoT Core Certified, G3 Ref. Board

LTE/5G Module

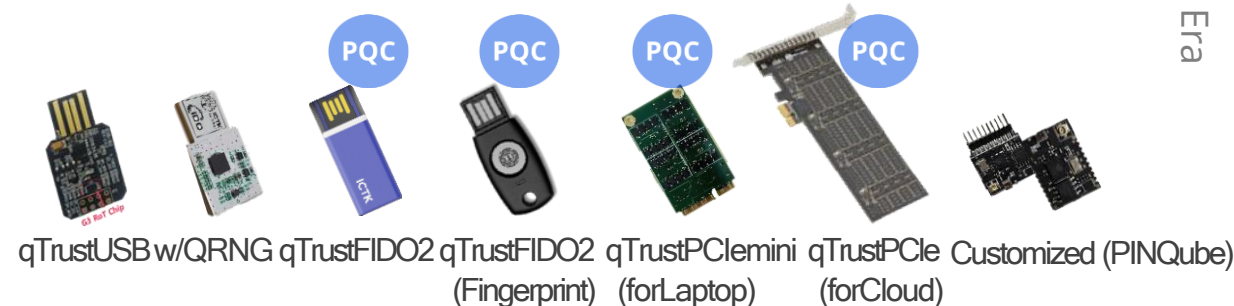
- Secure IoT Module with LTE/5G
- CAT-M1, 5G Egg
- Qualcomm MDM9205/MDM9206
- GPS, GLONASS
- 64.5mm * 47.0mm * 15.2mm

Secure UICC / eSIM

- Secure USIM with PUF, eSIM
- Secure Container
- Support PQC (Post Quantum Cryptography)
- Crypto Accelerator
- Secure Storage

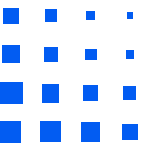
Secure USB/PCI/Customized

- Secure USB, Secure PCI
- Hardwired encrypted memory
- Authenticator, PUF Array(TrustPCI)



Security for Quantum Era

ソリューション製品 “応用例：qTrustNet(+HSM)”



- ❖ユースケース：クラウドやインターネット基盤で利用する複数の端末らのセキュリティ認証を強化する用途。
- ❖強力的なVIA-PUF及びPQC技術を利用して浸透や複製が不可能な安全なセキュリティ網が構築できます。

We protect your values!

