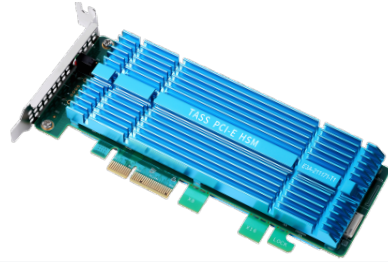


## XKT-P1

☰ XKT-P1 PCIe

☰ Support Hyperledger Fabric



### ☰ Encryption Algorithm and Cryptograph Key Management

#### Cryptographic Algorithm

- Symmetric Encryption Algorithms : SM1、SM4、SM7、ZUC
- Asymmetric Cryptographic Algorithms : SM2、RSA2048
- Digest Algorithm : SM3

#### Key Storage

- SM4 Key : 64 entries, or stored externally as key ciphertext
- SM2 key pairs : 64 pairs, or stored externally as key ciphertext

### ☰ Encryption Operation Throughput, Supported Interface and Key Generation Throughput

#### Encryption Operation Throughput

- SM2 Signature : 4000 times per second
- SM2 Signature Verification : 2500 times per second
- SM2 Encrypted : 2100 times per second
- SM2 Erypted : 2700 times per second
- SM3 Digest Operation : 5 Mbps
- SM1 Encryption / Decryption : 400 Mbps
- SM4 Encryption / Decryption : 2 Gbps
- SM7 Encryption / Decryption : 15 Mbps

#### Key Generation Throughput

- SM2 : 3800 pairs per second
- Random Numbers : 14 Mbps

#### Supported Specification

- OPENSSSL interface
- JCE interface
- SDF interface
- PKCS#11 interface

### ☰ Mechanical and Operation

- Reliability : MTBF  $\geq$  30000 小时
- Ethernet Interface : 10/100/1000M
- Size (Width\*Height\*Depth) mm : 168\*79\*22
- Interface : PCI-E 2.0 X4
- Maximum Power Consumption : 5 W

### ☰ Environmental Request

- Operating: 5 °C to +55 °C, 5-85% RH , non-condensing
- Storage: -10 °C to +60 °C, 5-90% RH, non-condensing