



# CryptoServer CP5

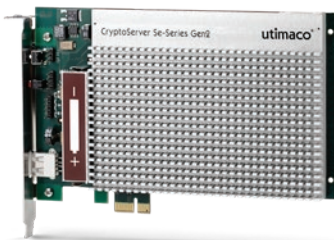
**CryptoServer**  
The Root of Trust HSM



Utimaco CryptoServer CP5 – The eIDAS-compliant CC-certified Hardware Security Module

## Common Criteria & eIDAS-compliant

The Utimaco CryptoServer CP5 supports Trust Service Providers (TSPs) in fulfilling policy and security requirements defined in various ETSI technical standards (ETSI EN 319 401, EN 319 411, EN 319 421). With key authorization functionalities, it is ideally suited for eIDAS-compliant qualified signature creation and remote signing. Other application areas include the issuing of (qualified) certificates, OCSP (Online Certificate Status Protocol) and time stamping. The CryptoServer CP5 is based on the CryptoServer Se Gen2 hardware platform and Common Criteria-certified according to the eIDAS Protection Profile (PP) EN 419 221-5 "Cryptographic Module for Trust Services". It is available as a PCIe plug-in card or as network-attached appliance.



**utimaco**<sup>®</sup>



## Product Highlights

- Full compliance at an attractive price
- For applications with low to highest performance requirements
- Extensive remote administration
- Efficient key management and firmware updates via remote access
- Automation of remote diagnosis via SNMP (Simple Network Management Protocol)
- Dedicated software simulator for evaluation and integration testing



## Key Features

- Secure key storage and processing inside the secure boundary of the HSM
- Extensive key management with key authorization
- Key authorization API and tool (acc. PP EN 419 221-5)
- "m out of n" quorum authentication (e.g. 3 out of 5)
- 2-factor authentication with smartcards
- Multi-tenancy support
- Remote management
- Dedicated software simulator for evaluation and integration testing
- Supported operating systems: Windows and Linux
- Multiple integrations with PKI applications, etc.
- All features included in product price



## HSM Functionalities

### Cryptographic algorithms

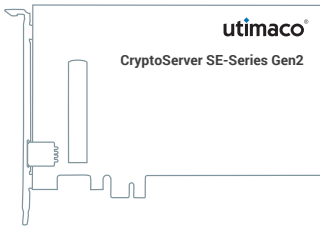
- RSA, ECDSA with NIST and Brainpool curves
- ECDH with NIST and Brainpool curves
- AES
- CMAC, HMAC
- SHA2-Family, SHA3
- Hash-based deterministic random number generator (DRG.4 acc. AIS 31)
- True random number generator (PTG.2 acc. AIS 31)
- Up to 3,000 RSA or 2,500 ECDSA signing operations in bulk processing mode
- All algorithms included in product price

### Application programming interfaces (APIs)

- PKCS#11
- Cryptography Next Generation (CNG)
- Cryptographic eXtended services Interface (CXI) – Utimaco's high performance interface ensures easy integration of cryptographic functionality into client applications



## Technical specifications PCIe card



### Physical Dimensions

- **Form factor:** Half-length, full-height single lane PCI Express card
- **Compatibility:** PCIe 1.1, PCIe 2.0 and PCIe 3.0 slots
- **Height:** 111.15 mm ("full" height)
- **Weight:** 400 g



### Connectivity

- **Interface:** USB



### Electrical

- **Power Supply:** 3 V lithium battery, Ø 12 mm, length 600 mm, FDK CR 12600 SE or VARTA CR2NP
- **Operating voltage:** 3.3 V



### Operating Environment

- **Operating temperature:** +10°C to +45°C (+50°F to +113°F)
- **Storage temperature:** -10°C to +55°C (+14°F to +131°F)
- **Relative humidity:** 10% to 95%, non-condensing
- **MTBF:** 360,000 hours at 25°C / 77°F



### Certification/Compliance

- **Safety:** FIPS 140-2 Level 3, UL, IEC/EN 60950-1, CB certificate
- **Emissions:** CE, FCC Class B
- **Environmental:** RoHS II, WEEE



## Technical specifications Network appliance



### Physical Dimensions

- **Form factor:** 19" 1U
- **Width:** 446 mm excluding brackets
- **Depth:** 533.4 mm excluding handles
- **Height:** 44 mm
- **Weight:** 10 kg



### Connectivity

- **Interfaces:** 2 RJ45, 1 Gb/s



### Electrical

- **Power Supply:** Redundant field-replaceable power supply: 2 x 100 ~ 240 V AC, 50 ~ 60 Hertz, 300 W
- **Power consumption:** typically 45 W / 66 VA, max. 50 W / 70 VA
- **Heat dissipation:** max. 171 BTU/h



### Operating Environment

- **Operating temperature:** +10°C to +50°C (+50°F to +122°F)
- **Storage temperature:** -10°C to +55°C (+14°F to +131°F)
- **Relative humidity:** 10% to 95%, non-condensing
- **MTBF:** 100,000 hours at 25°C / 77°F, environment GB, GC – Ground Benign, Controlled



### Certification/Compliance


- **Safety:** FIPS 140-2 Level 3, UL, IEC/EN 60950-1, CB certificate
- **Emissions:** CE, FCC Class B
- **Environmental:** RoHS II, WEEE





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Mehr Informationen zu Utimaco HSM Produkten finden Sie unter:

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