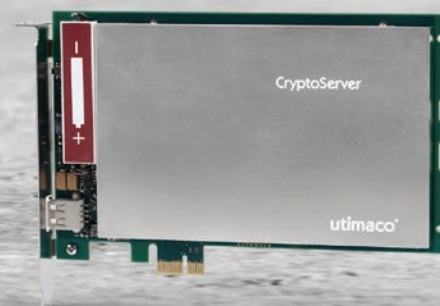


## Highest level of security for confidential data and cryptographic keys

Utimaco's SecurityServer CSe utilizes tamper-responsive technology to secure cryptographic key material for servers and applications. It is ideally suited for applications and market segments with high physical security requirements, e.g. government authorities or banking environments. The SecurityServer CSe is available as a PCIe plug-in card or as network-attached appliance.

### Maximum security

- Highest security at an attractive price
- Starter models for applications with low performance requirements
- Extensive remote administration
- Efficient key management and firmware updates via remote access
- Automation of remote diagnosis via SNMP (Simple Network Management Protocol)
- Software simulator for evaluation and integration testing



### Contact

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## Features

- Secure key storage and processing
- Extensive key management
- Secure key storage inside HSM or as external encrypted key files
- 2-factor authentication with smartcards
- "m out of n" authentication (e.g. 3 out of 5)
- Configurable role-based access control and separation of duties
- Multi-tenancy support
- Remote management
- Software simulator for evaluation and integration testing
- Supported operating systems: Windows and Linux
- Multiple integrations with PKI applications, database encryption, etc.
- All features included in product price

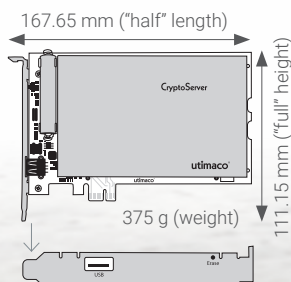


## Security, safety, environmental compliance

- FIPS 140-2 Level 3, Physical Security Level 4
- PCI HSM
- DK (German Banking Industry Committee)
- CE, FCC Class B
- UL, IEC/EN 60950-1
- CB certificate
- RoHS II, WEEE

## PCIe card physical specifications

- Half-length, full-height single lane PCI Express card
- Supports PCIe 1.1, PCIe 2.0 and PCIe 3.0 slots
- Operating voltage: 3.3 V
- 3 V lithium battery, Ø 12 mm, length 600 mm, FDK CR 12600 SE or VARTA CR2NP
- 2 USB interfaces
- Operating temperature: +10°C to +35°C (+50°F to +95°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



## Cryptographic algorithms

- RSA, DSA, ECDSA with NIST and Brainpool curves
- DH, ECDH with NIST and Brainpool curves
- AES, Triple-DES, DES
- MAC, CMAC, HMAC
- SHA-1, SHA2-Family, SHA3, RIPEMD
- Hash-based deterministic random number generator (DRG.4 acc. AIS 31)
- True random number generator (PTG.2 acc. AIS 31)
- All algorithms included in product price

## Application programming interfaces (APIs)

- PKCS#11
- Java Cryptography Extension (JCE)
- Microsoft Crypto API (CSP), Cryptography Next Generation (CNG) and SQL Extensible Key Management (SQLEKM)
- Cryptographic eXtended services Interface (CXI) – Utimaco's high performance interface ensures easy integration of cryptographic functionality into client applications

## Network appliance physical specifications

- 19" 1U form factor
- 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
- 2 RJ45 1 Gb/s network interfaces
- Operating temperature: +10°C to +40°C (+50°F to +104°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

