



The Industry Standard Hardware Security Module

SecurityServer from Utimaco secures cryptographic key material for servers and applications. It includes integration software that supports the industry standards (e.g. PKCS#11, Microsoft CSP/CNG, JCE, ...) which are used in most application scenarios, e.g. Enterprise PKI applications, database encryption, etc.

The SecurityServer Se is available as PCIe embedded card or as network attached appliance.



Fully functional CryptoSever Simulator available for evaluation and application integration.

LOW OPERATIONAL COSTS

- Highest performance at an attractive price
- Inexpensive starter models for applications with lower performance requirements
- Extensive remote administration
- Efficient key management and firmware updates via remote access
- Automation of remote diagnosis through network management system using SNMP protocol

CONTACT

Utimaco IS GmbH
Germanusstraße 4
52080 Aachen
Germany

phone + 49 241 1696 200
email hsm@utimaco.com
web <http://hsm.utimaco.com>

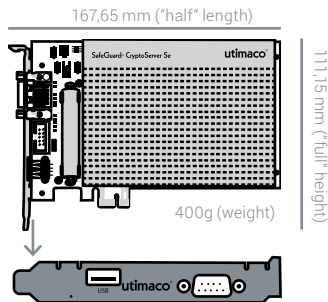


Capabilities

- Secure key storage and processing
- Cryptographic offloading/acceleration
- Extensive key management
- Key storage inside HSM or as encrypted key files
- Multiple options for user authentication and access control
- Smartcard for strong authentication
- “n out of m” authentication
- Separation of duties
- Remote Management
- Supported OS: Windows and Linux
- Multiple integrations with PKI applications, database encryption, etc.

Security, safety, environmental compliance

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



Physical specification PCIe card

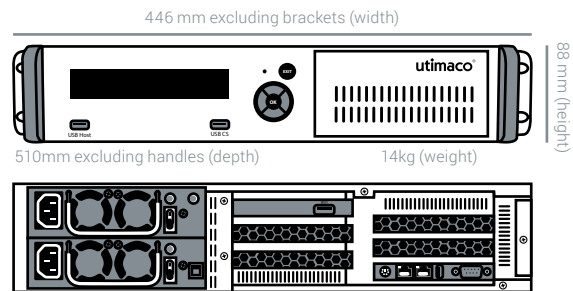
- Half length, full height PCI Express card
- PCI Express V1.1 x1 interface
- Operating voltage 3,3V
- Battery 3 V, Lithium, Ø 12 mm, length 600 mm, FDK CR 12600 SE or VARTA CR2NP
- 2 serial V.24 interfaces
- 2 USB interfaces
- Operating temperature: +10°C to +45°C (+50°F to +113°F)
- Storage temperature: -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

Cryptography

- RSA
- ECDSA, NIST and Brainpool curves
- DSA
- DH, ECDH
- AES
- DES, Triple DES
- SHA-1, SHA-2, RIPEMD
- MAC, CMAC, HMAC
- Hash-based Deterministic Random Number Generator (DRNG)
- True Random Number Generator (TRNG)

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 guarantees easy integration of cryptographic functionality into client applications



Physical specification network appliance

- 19" 2U form factor
- Redundant field-replaceable power supply 90~264 V, 47~63 Hertz AC 2 x 420 W
- Power consumption typically 70 W / 85 VA, max. 90 W / 100 VA
- Heat dissipation max. 307 BTU/h
- 2 RJ45 1 Gb/s network interfaces
- 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 90,000 hours at 25°C / 77°F

Available models and performance with unlimited client licenses

	Se10		Se50		Se400		Se1000	
	PCIe	LAN	PCIe	LAN	PCIe	LAN	PCIe	LAN
RSA signature generation (tps: transactions per second)								
2048 bits	16	16	80	80	540	460	900	700
4096 bits	2	2	10	10	130	120	240	220
RSA bulk signature generation (tps: transactions per second)								
2048 bits	16	16	80	80	1500	1500	2800	2700
4096 bits	2	2	10	10	290	290	570	570
Elliptic Curve signature generation (tps: transactions per second)*								
224 bits	150	140	1100	880	1100	880	1100	800
384 bits	50	50	450	400	450	400	450	400
Elliptic Curve bulk signature generation (tps: transactions per second)*								
224 bits	160	160	1400	1300	1400	1300	1400	1300
384 bits	50	50	500	500	500	500	500	500

* No ECC activation needed