



UTIMACO's Multi-tenant and Converged Cloud HSM Platform for General Purpose and Payment use Cases.



UTIMACO u.trust Anchor CSAR

Secure your digital transformation with a robust and converged HSM platform for payment and general purpose use cases that enables you to deploy HSM-as-a-Service (HSMaaS) in the cloud or within your enterprise.

u.trust Anchor is simple to manage and provides high assurance, tamper-resistant, security compliant, full control and audibility of your cryptographic keys with best-in-class performance.

Use Cases

- Document Signing
- Code Signing
- PKI
- Key Injection
- Key Management
- Transaction Signing
- Card Personalization
- BYOK
- DKE
- TLS

Application Programming Interfaces (APIs)

- PKCS#11
- Microsoft Crypto API (CSP)
- Microsoft Cryptography Next Generation (CNG)
- Microsoft SQL Extensible Key Management (SQLEKM)
- Java Cryptography Extension (JCE)
- UCAPI – UTIMACO Crypto API

Cryptographic Algorithms

- RSA, DSA, ECC with NIST and Brainpool curves
- DH, ECDH with NIST and Brainpool curves
- 5G, Block-Chain and PQC ready
- SHA-1, SHA-2 and SHA-3 Family
- AES, Triple DES, DES
- EC-VRF
- Hash-based deterministic RNG (NIST SP800-90B, AIS31 DRG.4)
- True random number generator (AIS31 PTG.2)

Security Classification / Certifications

- FIPS 140-2 Level 3*
- FIPS 140-3**
- Common Criteria EAL4+ (eIDAS)**
- PCI – HSM*

Features

- Up to 32 partitions with QOS
- Deploy different firmware stacks per partition in FIPS or Non-FIPS mode
- “m of n” authentication
- Configurable role-based access control and separation of duties
- Multi-slot support
- Remote Management
- Software Simulator for evaluation and integration testing
- Secure key storage and processing
- Windows and Linux support
- Broad ecosystem of integrations (PKI software, database encryption, ...)

Models (PCIe and Network Form Factors)

- CSAR Premium
- CSAR Plus
- CSAR Standard

Product Family and Simulator Availability

- Based on u.trust Anchor
- SecurityServer
- Simulator included

* in progress, ** planned



19 inch Network Appliance

Reliability

MTBF

- 134,250 hours, in acc. with Telcordia Issue 3, temperature 30°C, environment Ground Benign

Connectivity

Connection

- 2 RJ45 1 Gb/s network interfaces
- 2 SFP+ 10 Gb/s network interfaces as optional extension

Certification/Compliance

Safety

- UL, IEC/EN 60950-1
- CE, IEC/EN 62368-1
- CB Certificate

Emissions

- FCC Class B

Environmental

- RoHS II

Physical Specifications

Form Factor

- 19" Rack-mountable (1U)

Weight

- 10 kg

Dimensions

- Width: 446 mm (excluding brackets)
- Height: 44 mm
- Depth: 533,4 mm (excluding handles)

Operating Environment

Temperature

- +10°C to +50°C (+50°F to +122°F)

Relative Humidity

- 10% to 95% Non-condensing

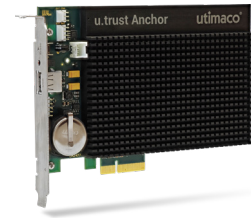
Electrical and Heat Specifications

Power Supply

- Redundant field-replaceable
- 2 x 100 ~ 240 V AC, 50 ~ 60 Hertz, 300 W

Heat Dissipation

- Max. 222 BTU/h



PCIe Card

Reliability

MTBF

- 389,797 hours, in acc. with Telcordia Issue 3, temperature 30°C, environment Ground Fixed, temperature 50°C for parts in potting material

Connectivity

Connection

- PCIe x4
- Compatible with PCIe 1.1, PCIe 2.0 and PCIe 3 slots

Certification/Compliance

Emissions

- FCC Class B

Environmental

- RoHS II (pending)
- REACH

Physical Specifications

Form Factor

- PCIe Add-In Card (Standard Height; Half Length)

Weight

- < 500 g

Dimensions

- Width: 111,15 mm
- Height: 18,6 mm
- Depth: 167,65 mm (excluding brackets)

Operating Environment

Temperature

- Operation: +10°C to +40°C (+50°F to +104°F)
- Storage: -10°C to +55°C (+14°F to +131°F)

Relative Humidity

- 10% to 95% Non-condensing

Electrical and Heat Specifications

Operating Voltage

- 12 V supplied by PCIe Connector
- 3,3 V supplied by PCIe Connector

Heat Dissipation

- Max. 85.3 BTU/h

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