

Secure Timestamps for Document and Data Authenticity



Product Platform



UTIMACO
CryptoServer

Firmware Option



UTIMACO
TimestampServer



The UTIMACO TimestampServer is the ideal Hardware Security Module (HSM) for business applications that require proving the **existence and status of a document or data at a specific point in time**.

The UTIMACO TimestampServer ensures the **tamper-proof creation and authenticity of timestamps** for electronic contracts, the reception of offers on electronic tender platforms or the submission time of a bet to an online lottery game. The UTIMACO TimestampServer ensures that timestamped data is authentic for these and similar applications. It is able to verify at all times, whether or not the timestamped data matches the exact same form at the point in time it was logged by the timestamp.

Regular re-creation of a **current timestamp guarantees continuity** of the audit trail. This enables long-term archiving – year after year, even after the expiration of older signature certificates.

The TimestampServer is available as network appliance.

Product Highlights

Fields of application

- Document management and archiving systems
- Long-term archiving solutions
- Electronic tender platforms
- Lottery and online betting
- Electronic contracts
- Support and ticketing systems

Secure investment

- Highest performance level at an attractive price
- Non-limited number of connections
- Easy software upgrades for adapting to future timestamp protocols and algorithms

Interfaces

- RFC 3161 Timestamp Protocol via HTTP or TCP, IPv4 and IPv6 network protocol
- CryptoServer Timestamp API for general TimestampServer administration
- PKCS#10 and PKCS#7 for request and import of TimestampServer certificates
- Network Time Protocol (NTP) for synchronization of TimestampServer with external time server
- Built-in GPS or DCF77 receiver for time synchronization (optional hardware extension)
- Built-in fibre network ports (optional hardware extension)

Algorithms

- RSA, key length up to 8192 bits
- Hash algorithms SHA-1, SHA-2 family, SHA-3, RIPEMD-160, MD5

Security

- Integrated Hardware Security Module is certified in accordance with FIPS 140-2 Level 3
- FIPS 140-2 Level 4 physical security with TimestampServer CSe-Series
- Meets requirements of ETSI Technical Specification TS102023 "Policy Requirements for Timestamping Authorities"

Key Features

Interoperable

- Supports RFC 3161 Timestamp Protocol

Secure

- Integrated FIPS 140-2 level 3 validated Hardware Security Module for secure key storage and timestamping

Reliable

- Fault-tolerant hardware with redundant field-replaceable power supply and cooling

Manageable

- Secure remote administrator access
- SNMP monitoring and alerts

Technical Specifications



Physical Dimensions

- **Height:** 1.69 inches (4.3 cm)
- **Width:** 19.01 inches (48.3 cm)
- **Depth:** 30.87 inches (78.4 cm)
- **Full configuration weight:** 24.3 lb (11.0 kg)
- **Form factor:** 19" 1U



Connectivity

- **Interfaces:**
 - 2 RJ45 1 Gb/s network interfaces
 - 2 additional 1 Gb/s RJ45 or 10 Gb/s SFP+ network interfaces (optional extension)



Electrical and thermal characteristics

- **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

- **Temperature TimestampServer Se Gen2-Series:**
 - +10°C to +50°C (+50°F to +122°F)
- **Temperature TimestampServer CSe-Series:**
 - +10°C to +40°C (+50°F to +104°F)
- **Relative humidity:**
 - 10% to 95%, non-condensing
- **MTBF:**
 - CryptoServer Se-Series Gen2: 125,322 hours
 - CryptoServer CSe-Series: 98,244 hours



Non-operating/Storage Environment

- **Temperature:**
 - 10°C to +55°C (+14°F to +131°F)
- **Relative humidity:**
 - 10% to 95%, non-condensing



About UTIMACO

UTIMACO is an international provider of IT security solutions with headquarters in Aachen (Germany) and Campbell, CA (USA).

UTIMACO develops hardware-based, high-security appliances (Hardware Security Modules) and compliance solutions for telecommunication provider regulations (lawful interception and data retention). UTIMACO is one of the world's leading manufacturers in both of these market segments.

Customers and partners of UTIMACO in all parts of the world trust the company's long-term, proven reliability and investment protection, as well as its many certified IT security standards. UTIMACO stands for recognized product quality, user-friendly software, excellent support and trusted high security – made in Germany. Over 280 employees have committed to the company's goal to protect people, ideas and data.

Cyber Security gains dramatically in importance throughout all industries. For over 30 years now, UTIMACO products have been protecting people around the world against terrorism and organized crime and have secured private and sensitive data against theft or abuse.



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Get in Touch



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