

# PRISM

## TSM500i-NSS STS6 Datasheet



Offering the highest level of security for STS vending systems and meter manufacturing environments, while also supporting trust centres and transactional processing in the banking industry.

Operational throughout the globe in over 1300 bank branches, trust centres, whilst supporting billions of transactions on the VTU platform throughout Africa, since 2004.

### Certification

- Prism's TSM500i series tamper responsive/resistant Hardware Security Modules (HSM's) are certified to PCI HSM V3.0.
- Certified for use in STS vending systems by the STS Association.



### Ease of Use

- Comprehensive documentation makes it straightforward to manage and configure the TSM500i-NSS using a web browser.

### Service and support

- The STS6 API specification is available to members from the STS Association website.
- PRISM provides a one year hardware warranty which is automatically extended for a further 12 months on the renewal of an annual license within the warranty period.
- Telephonic and email support is offered for diagnostics.
- Technical support is offered as an optional extra.

### Performance

- The TSM500i is capable of performing 80 to 280 vends per second.

### Service and support

- The TSM500i with STS64V1x / STS64M1x is supported by PrismToken to provide an STS token generation solution that provides immediate support for STS edition 2 (STS6), with the ability to implement TID rollover. Refer to [www.prism.co.za](http://www.prism.co.za) for details.
- Prism Test Key Management Centre is available online for testing STS600-4-2 Vending Key Load Requests and Responses using CTS Test Keys. Contact Prism for further details.

Disclaimer: The material in this document is presented strictly for information purposes. While every effort has been made to ensure its correctness, neither the correctness nor the suitability of the information for any purpose is warranted. Product specifications and features are subject to change without notice.

## MODEL: TSM500i-NSS

### Firmware Variants

- STS64V1x Vending
- STS64M1x Meter Manufacturing

### External HW Requirements

- Prism Key Component Entry Device for access control for Meter Manufacturing variant only.

### Algorithms

**Supports STS STS600-4-2 key management specification which includes rollover bit, new encryption algorithms and factory keyloading:**

- + Misty 1 (ISO 18033-3)<sup>1</sup>
- + AES algorithm (FIPS 197)
- + ECC (FIPS 186-3)
- + SHA-256 & SHA384 hash algorithm
- + (ISO10118/FIPS 180-4)
- + HMAC (ISO9797-2/FIPS 198-1)
- + STA (IEC62055-41)
- + TDES and DES for legacy compatibility

### Form Factor

- 19" Rack Mount Appliance
- 483mm width, 250mm depth, 1U height

### Environment Characteristics

- Operating temperature: 2 – 40 °C
- Relative humidity: 5 – 95% (non- condensing)
- RoHS compliant (free of hazardous substances)
- Compliant with IEC 62368-1 safety requirements
- Compliant with EN 55032 & EN 55035 standards

### Interfaces

- Gigabit (10/100/1000Mbps) Ethernet port
- USB port for software upgrades & KCED

### Platforms

- Platforms that can communicate using a datagram protocol over a TCP/IPv4 network

### Physical Characteristics

- **Input Voltage:** 100-240v ac (50-60Hz)
- **Power Consumption:** 50w (maximum)
- **Nett Weight:** 2.5kg
- **Shipping weight:** 4.65Kg

<sup>1</sup>The TSM500i HSM with STS6 firmware contains the encryption algorithm developed by Mitsubishi Electric Corporation.

Prism's products and solutions provide key technology and secure transaction processing for prepayment vending, EFT and mCommerce markets.

As industry leaders with over 20 years' experience, we have produced a number of award-winning Hardware Security Modules and systems primarily aimed at the financial, retail, telecommunications and utilities sectors. We continually strive towards building on our experience and expertise enabling us to not only meet security standards but define them.