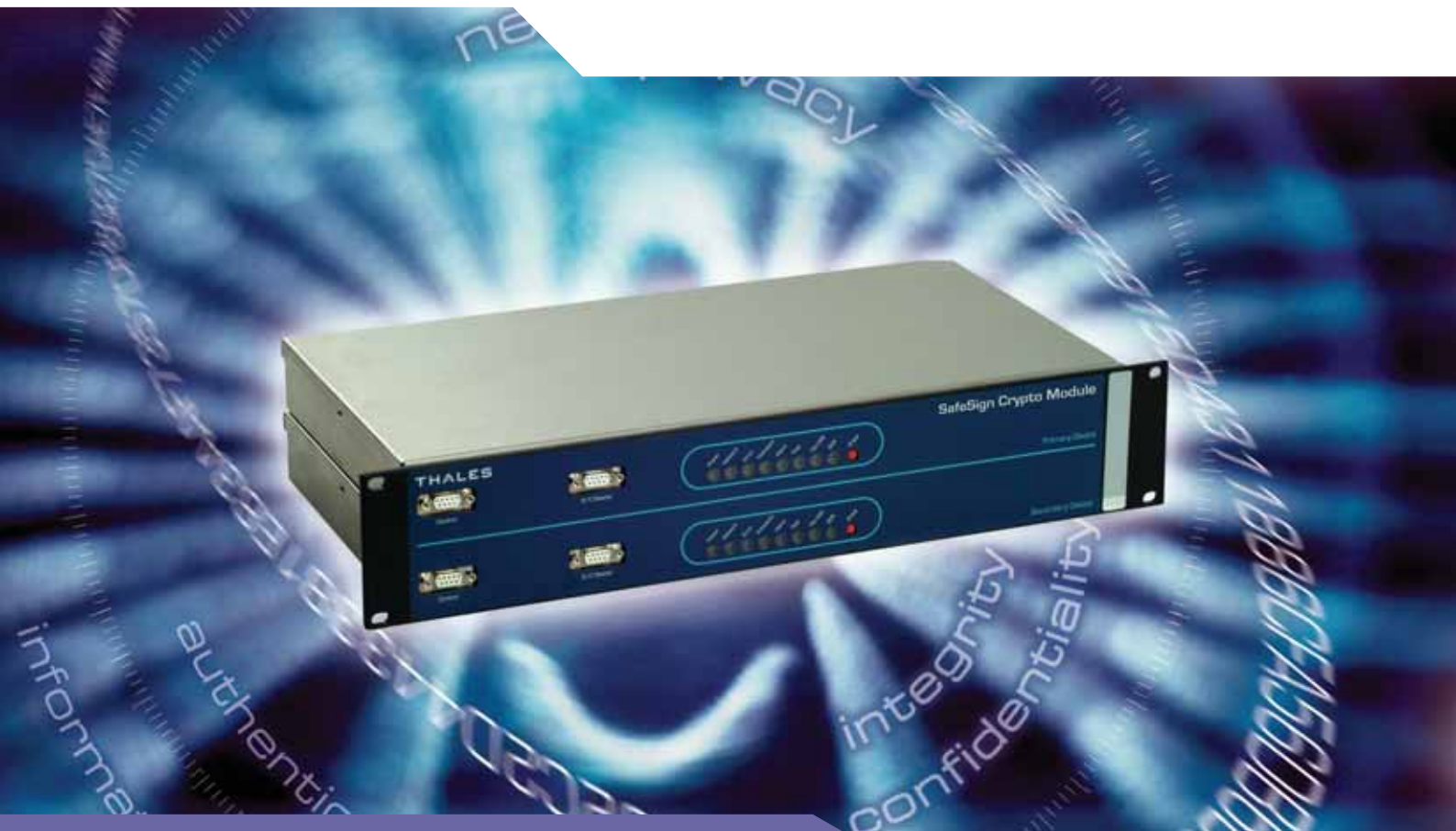


# THALES



## SafeSign Crypto Module

[www.thalesgroup.com/esecurity](http://www.thalesgroup.com/esecurity)

## Technical Specifications

### PROGRAMMING INTERFACES

<b>Interface Type</b>	Industry Standard PKCS#11 v2.01
<b>Cryptographic Functions</b>	DES and triple-DES key generation, encryption and decryption DES and triple-DES MAC generation and verification RSA key pair generation, signature and verification (512 to 2048 bits) DSA key pair generation, signature and verification (512 and 1024 bit) HMAC signature and validation (160 bits) Secure Socket Layer (SSL) v3 key generation and derivation mechanisms MD5 and SHA-1 message digest Certificated storage within Tamper-resistant memory Hardware-based random number generator
<b>Specialised functions</b>	MasterCard CAP and Visa DPA Token Authentication including Thales PSM, WatchWord and Vasco
<b>Operating Systems</b>	Microsoft Windows NT 4.0, 2000, XP and 2003 RedHat Linux 7 or 8 or equivalent kernel SUN Solaris 8 and 9

### DEVICE SECURITY

<b>Physical Security</b>	Tamper evident chassis Tamper detection envelope surrounds cryptographic module Motion detection, temperature sensitive device and protection against voltage, chemical and penetration attacks
<b>Security Certification</b>	Security sub-system validated FIPS 140-1 level 4 Security sub-system under validation to FIPS 140-2 level 4 FIPS 140-2 Level 2 compliant tamper evidence detection

### DEVICE SPECIFICATIONS

<b>Communications Interfaces</b>	Doubled 10BaseT Ethernet Smart card reader with integral PIN Pad RS232 auxiliary management port accessible from front or back of unit
<b>Regulatory</b>	CE, FCC, UL
<b>Power</b>	Auto-Sensing 110-240V AC/50-60 Hz Internal Power Supply
<b>Environmental</b>	Operating Temperature: -5°C to 40°C (23°F to 100°F) Storage Temperature: -10°C to 60°C (15°F to 140°F) Relative Humidity: 10% to 90% at 25°C (77°F) Non-Condensing Barometric Pressure: 780 to 1100 mBar
<b>Physical Specifications</b>	H 88mm (3.47") x W 482mm (18.8") x D 243.70mm (9.66") 2U x 19" rackable unit

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