Securely Connecting Classified Networks to and from the Edge of the Battlespace
- NSA Type 1 Secret & Below Embeddable Cryptosystem
- Non-CCI CHVP
- Uses 100% Commercial Off-the-Shelf Hardware
- Programmable and Software-Upgradeable Algorithms, Key Management, and Security Functions
- Low Logistics Burden: Certificate-Based Self-Generated Keys, Low SWaP, and Simplified Handling

SPECIFICATIONS

CRYPTOGRAPHIC FEATURES
- NSA Type 1 for Secret & Below communications
- Non-CCI CHVP simplifies handling logistics
- PKI certificate-based Self-Generated Keys simplifies key management
- Complete PSIAM™ cryptographic system module
- Fully programmable
- Supports Crypto Modernized Commercial National Security Algorithms (formerly known as Suite B algorithms) and modes
- Packet-by-packet key and algorithm/mode agility
- Support for data, voice, and video message types
- Support for control/status trusted (guarded) bypass
- Certified, hardware-based True Random Number Generator (TRNG)
- Anti-tamper controls
- Downloadable configurations can be tuned to maximize power and performance for a given application

PERFORMANCE
Throughput: 10 Mbps with power less than 400mW
Simultaneous Active Circuits: 64
Simultaneous Active Keys: Up to 64 (each circuit can have a unique key)
Key Storage Capacity: 1,000

INTERFACES
Plaintext, Ciphertext: 8-bit bus, 1.8 V LVCMOS
Power Input: 3.6 V +/- 10%
Control/Status IO: 1.8 V LVCMOS

PHYSICAL
Size (W x H x D): 1.35 x 1.9 x 0.433 in.
Weight: <20 g
Power: <400mW

ENVIRONMENTAL
Temperature
- Operational: -40º to 85º C
- Storage: -55º to 125º C

Altitude
- Operational: 35,000 ft
- Storage: 70,000 ft

EMI/EMC MIL-STD-461
Lightning MIL-STD-464
Temperature, Humidity, Shock, Vibration and Altitude MIL-STD-810G

VIASAT LIBRARY OF CRYPTOGRAPHIC FEATURES AVAILABLE FOR IMPLEMENTATION
- Variety of algorithms and modes
- Dynamically loadable control and status guard policies
- KMI Certificate-based Key Management
- Interface to multiple key fill device types
- Token-based access control
- PIN-based access control
- Programmable external interfaces and I/O
- Support for data, voice, and video message types
- Support for control/status trusted (guarded) bypass
- Certified, hardware-based True Random Number Generator (TRNG)
- Anti-tamper controls
- Downloadable configurations can be tuned to maximize power and performance for a given application

DEVELOPMENT SUPPORT TOOLS
- Development kit available today to support early integration
- Embedment Manual and Interface Documentation available today to support early embedment

CERTIFICATION
NSA Type 1 for Secret & Below
Non-CCI
NSA Nomenclature: MC

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