

Viasat embeddable security modules bring flexible and affordable accredited cryptography to a wide range of government and military applications, such as tactical unmanned systems, handheld communications, weaponized platforms, and high-speed cloud computing.

At the core of Viasat embeddable security is the PSIAM™ crypto architecture. With a programmable design, this architecture is field-proven to provide intelligent protection that can evolve overtime without requiring costly hardware respins.

Our embeddable modules are fielded in tens of thousands of systems and are NSA and NIST certified to protect Top Secret & Below data and communications. With over 25 different existing configurations and an extensive library of cryptographic functions and waveforms, our modules can be easily tailored to your needs and will help you affordably and quickly field your system.

EMBEDDABLE SECURITY SYSTEMS AT-A-GLANCE

Proven & Certified

- » NSA Type 1 to FIPS 140-2
- » Fielded in tens of thousands of systems
- » Implemented in over 25 configurations

Quicker Deployment

- » Accredited modules minimize security compliance requirements
- » Maximum interoperability via open-standard and commercial off-the-shelf technologies
- » Modify or enhance after deployment; software upgradeable to support Crypto Modernization and other needs

Complete Cryptosystem

- » All the functions you need for a cryptosystem contained in one module—no extras needed
- » Includes key management, memory, power conditioning, zeroization, and trusted bypass and control
- » FPGA-based architecture enables full programmability and scalability



CLOUD & ENTERPRISE NETWORKS

- » Encryption for high-volumes of data traversing public and private infrastructure
- » Operations at high-speeds (100 Gbps) requiring near-zero latency
- » Interoperability with Ethernet open standards (MACsec, ESS)
- » Turnkey data center rack embedment



HIGH-VALUE PLATFORMS

- » Consolidation of multi-level security and cross domain into a single unit
- » Minimizes crypto footprint and logistics
- » Simplifies platform comms architectures and security integration
- » Full programmability to adapt to changing threat environments



UNMANNED SYSTEMS

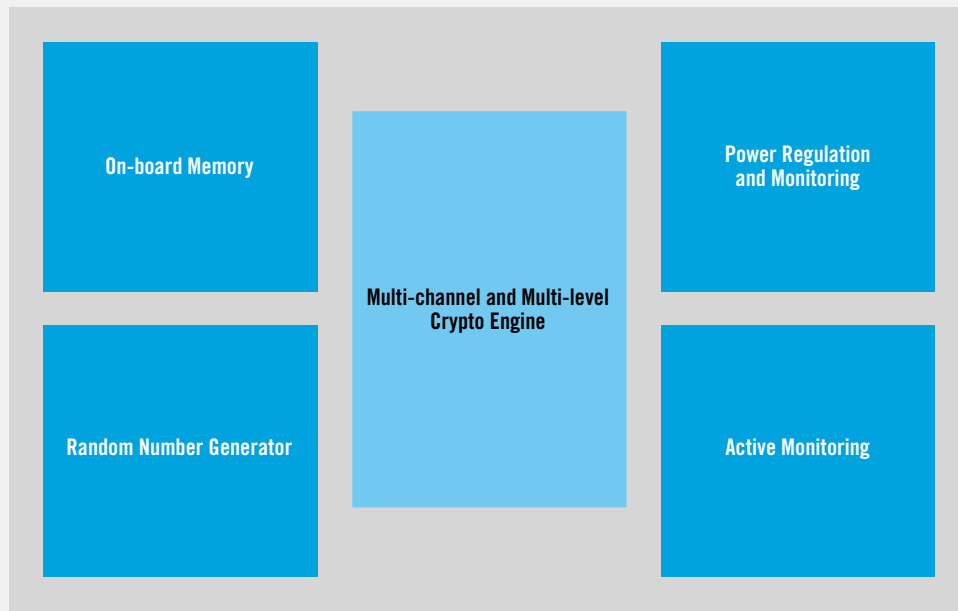
- » Small, rugged form factor for extreme environments (air, land, and sea) and applications with SWaP restrictions
- » Protection for Command & Control (C2) links
- » Remote zeroization and host heartbeat health monitoring
- » Program of Record small form factor cryptographic module



TACTICAL EDGE COMMS

- » Low SWaP for embedment in handheld devices or can be part of a compact plug-and-play solution to protect classified data
- » Network-centric functionality to support advanced waveforms (MANET)
- » Streamlines and simplifies crypto operations
- » Expedites NSA certification

SELF-CONTAINED CRYPTOSYSTEM



WHY VIASAT? >>>>

Viasat encryption is accredited and used by governments, militaries, corporations, and educational institutes worldwide. Our security hardware is part of a controlled supply chain and manufactured in the United States. Viasat is also a broadband satellite service provider, connecting users around the globe with high-speed Internet. We know that protecting your information is just as important as having immediate access to it from any location. With our embeddable cryptosystems, you gain trusted security that keeps pace with your mission.

AVAILABLE MODULES	COMMON APPLICATIONS	PROFILE	CERTIFICATION
ES-1200	Battery-powered applications: handheld radios, unmanned systems, guided munitions, and remote sensors	20 g, 800 mW power, up to 20 Mbps throughput, foreign releasable	FIPS 140-2 Level 2
ES-1610		20 g, 400 mW power, up to 10 Mbps throughput, tactical key management	NSA Type 1 (SAB)
ES-1850 (KOV-56)		20 g, <1 W power, up to 100 Mbps throughput	NSA Type 1 (TS/SCI)
ES-1800 (U-UIK)	Multi-channel, multi-level radios	60 g, 7 W power, 200 Mbps throughput, MILS certified for MLS	NSA Type 1 (TS/SCI)
ES-2200	Modems and key/certificate generation and management	PMC card, 10 W power, up to 1 Gbps throughput	FIPS 140-2 Level 2
SEC-1170B	WAN (between sites or to/from the cloud)	PCIe card, 50 W power, up to 100 Gbps throughput	FIPS 140-2 Level 3*
Turnkey Customizations	FPGA-based design and Viasat's library of existing cryptographic functions and waveforms can be used to create a module customized to your systems needs. Evaluation kits also available for various modules to enable rapid integration and testing.		



CONTACT

SALES

TEL 888 842 7281 (US Toll Free) EMAIL infosec@viasat.com WEB www.viasat.com/embeddable-security

