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
## Trusted Protection Across the Battlespace

### 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
Viasat Embeddable Security

SELF-CONTAINED CRYPTOSYSTEM

- On-board Memory
- Random Number Generator
- Multi-channel and Multi-level Crypto Engine
- Power Regulation and Monitoring
- Active Monitoring

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.
<table>
<thead>
<tr>
<th>AVAILABLE MODULES</th>
<th>COMMON APPLICATIONS</th>
<th>PROFILE</th>
<th>CERTIFICATION</th>
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<tbody>
<tr>
<td>ES-1200</td>
<td>Battery-powered applications: handheld radios, unmanned systems, guided munitions, and remote sensors</td>
<td>20 g, 800 mW power, up to 20 Mbps throughput, foreign releasable</td>
<td>FIPS 140-2 Level 2</td>
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<tr>
<td>ES-1610</td>
<td>20 g, 400 mW power, up to 10 Mbps throughput, tactical key management</td>
<td>NSA Type 1 (SAB)</td>
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<td>ES-1850 (KOV-56)</td>
<td>20 g, &lt;1 W power, up to 100 Mbps throughput</td>
<td>NSA Type 1 (TS/SCI)</td>
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<tr>
<td>ES-1800 (U-Ulk)</td>
<td>Multi-channel, multi-level radios</td>
<td>60 g, 7 W power, 200 Mbps throughput, MILS certified for MLS</td>
<td>NSA Type 1 (TS/SCI)</td>
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<tr>
<td>ES-2200</td>
<td>Modems and key/certificate generation and management</td>
<td>PMC card, 10 W power, up to 1 Gbps throughput</td>
<td>FIPS 140-2 Level 2</td>
</tr>
<tr>
<td>SEC-1170B</td>
<td>WAN (between sites or to/from the cloud)</td>
<td>PCIe card, 50 W power, up to 100 Gbps throughput</td>
<td>FIPS 140-2 Level 3*</td>
</tr>
<tr>
<td>Turnkey Customizations</td>
<td>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.</td>
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**CONTACT**

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