



GORE™ Secure Encapsulated Module

Protect Your Crypto Keys, Critical Program Information, or Intellectual Property From Physical Hackers

Electronic modules often store highly sensitive information. Communication devices store cryptographic keys and software waveforms, handhelds can store passwords and records, and embedded systems maintain sensitive algorithms in memory. These devices can easily fall into the wrong hands.

Attackers can gain access to your information in many ways. Once inside, information stored in solid state memory can be read even if the device is inoperable. A proven means of defense against these attacks is volume protection.

A GORE™ Tamper Respondent Envelope can surround and protect your electronic module. Acting as an anti-tamper sensor, this specialized envelope is designed to detect any means of entry into the module. With such protection, the attacker comes up empty as the module automatically erases the target of his attack.

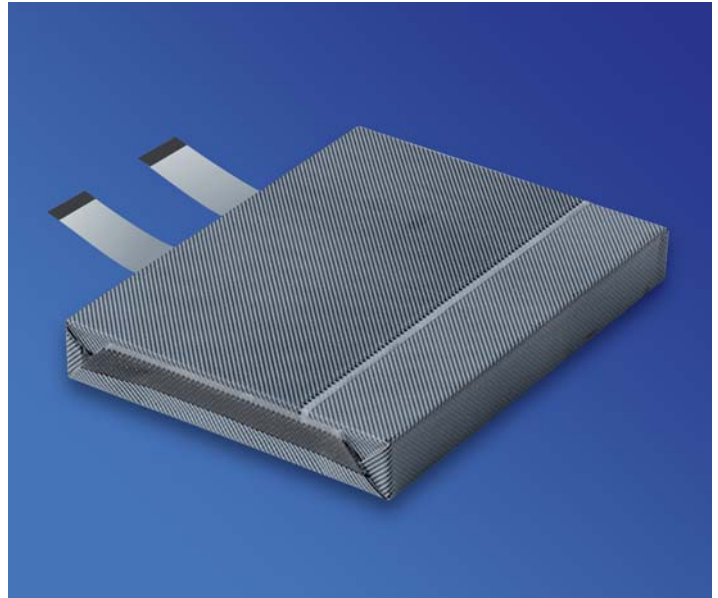
PRODUCT SUMMARY

The GORE™ Secure Encapsulated Module is a high security offering from a broad range of unique tamper respondent sensors and technology.

The GORE™ Secure Encapsulated Module is targeted to meet the requirements of the highest level of volume protection as specified in FIPS 140-2, Level 4. The folding technique used is designed to provide complete coverage of all surfaces (360° coverage).

GORE™ Tamper Respondent Technology offers secure, yet easy-to-adopt solutions to volume tamper protection. The GORE™ Secure Encapsulated Module detects physical intrusions by sensing attempts to open, remove, or penetrate the envelope covering the module. Detection typically triggers erasure of critical security information such as cryptographic keys or sensitive algorithms.

The sensor is extremely low power and, being non-metallic, is impossible to analyze by X-ray. It is designed to detect penetration by drills and probes as well as by erosive and chemical attacks.

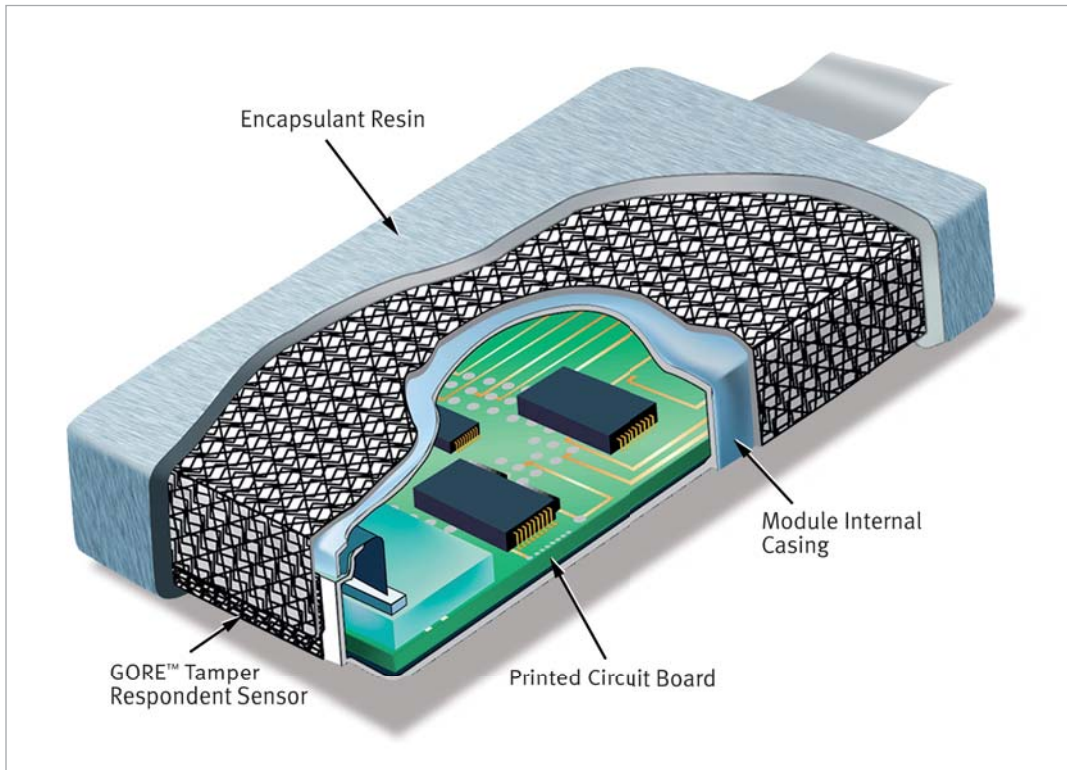


FEATURES AND BENEFITS

- Provides anti-tamper volume protection in a convenient form factor
- Enclosure acts as a tamper sensor that enables zeroization of critical keys or information stored within the protected volume
- Attempted penetration (cutting, drilling) or unwrapping causes detectable permanent change in electrical state
- All-polymer sensor construction precludes X-ray analysis by an attacker
- Easy to monitor with low power consumption
- OEM needs only simple design rules
- From the only commercial supplier of protection of secure electronics having many independent certifications
- Generic offering protects a 76mm x 80mm PCB—Other sizes available
- Targeted at FIPS 140-2, Level 4, DoD, NSA Type 1 security and CESG Enhanced Grade security



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APPLICATIONS

- High security cryptographic modules
- Highly secure communications
- DoD electronic units and modules
- Financial sector secure server communications

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