



GORE™ Tamper Respondent Surface Enclosure

FOR HIGH SECURITY APPLICATIONS

*Preliminary
Data Sheet*

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.

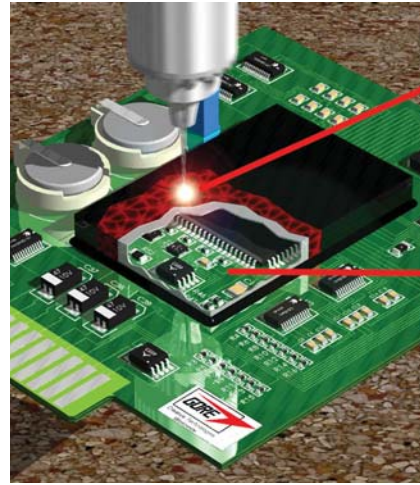
PRODUCT SUMMARY

The GORE™ Tamper Respondent Surface Enclosure for high security applications is a new offering from a unique range of tamper respondent sensors and technology.

GORE™ Tamper Respondent Technology offers secure, yet easy-to-adopt solutions to volume tamper protection. The GORE™ Tamper Respondent Surface Enclosure detects physical intrusions by sensing attempts to open, remove, or penetrate the envelope that it forms over the components to be protected. Detection typically triggers erasure of critical security information such as cryptographic keys or sensitive algorithms.

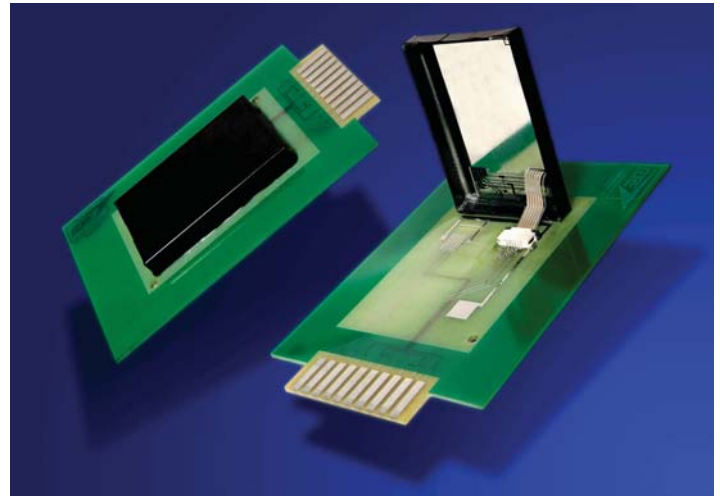
The GORE™ Tamper Respondent Surface Enclosure is designed to achieve a high level of physical security where space is at a premium and enclosure of an entire printed circuit board is not practical.

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.



GORE™ Tamper Respondent Surface Enclosure detects physical penetration attempt and triggers module to erase sensitive information

Components requiring protection



FEATURES AND BENEFITS

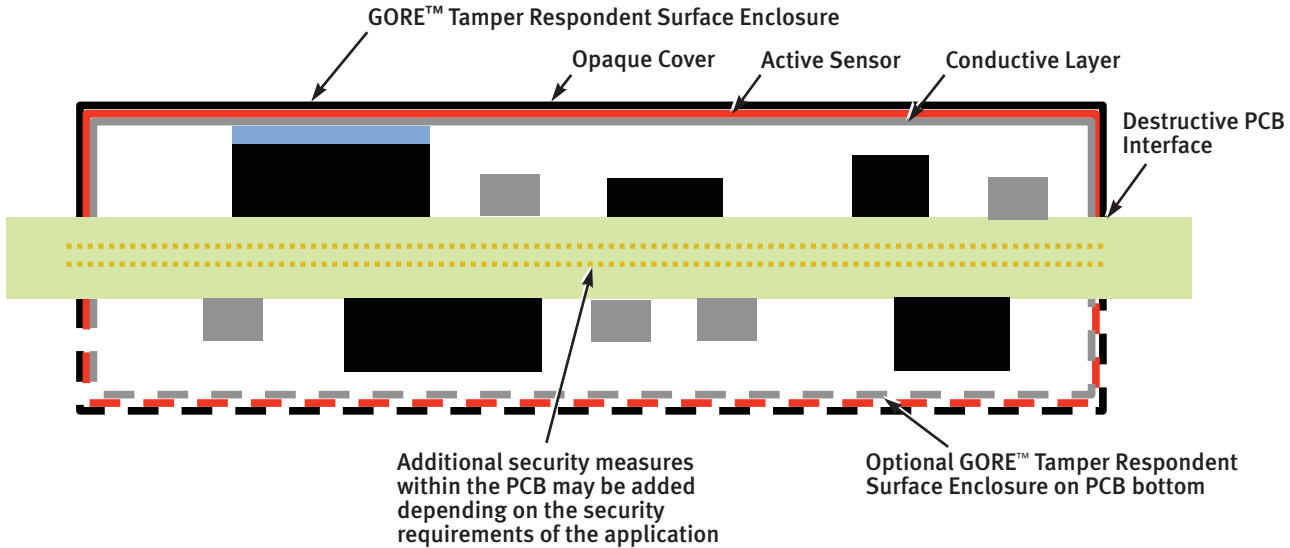
- Provides anti-tamper volume protection for a selected area of a printed circuit board
- Custom configured to fit over devices or zones
- Enclosure acts as a tamper sensor that enables zeroization of critical keys or information stored within the protected zone
- Attempted removal or penetration (cutting, drilling) causes detectable permanent change in electrical state
- Minimizes size and space as compared to enclosing an entire board
- All-polymer sensor construction precludes X-ray analysis by an attacker
- Targeted at FIPS 140-2, Level 3 and Level 4, DoD, NSA Type 1 security
- Easy to monitor with low power consumption
- Easy to adopt design rules
- From the only commercial supplier of protection of secure electronics having many independent certifications



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SUMMARY OF GORE™ TAMPER RESPONDENT SURFACE ENCLOSURE



APPLICATIONS

- Chip or board-level cryptographic security processors
- Single board computers or embedded systems having sensitive algorithms
- Highly secure wireless and wireline communications
- Access control systems
- Secure handheld devices

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