

COMPONENT PROTECTION

Defending the Component Itself.

Component-level electromagnetic protection engineered for electronic housings, sensor payloads, satellite modules, and mission-critical PCBs — signature reduction, HPM resilience, and cross-talk isolation applied at the enclosure, not the room.

HOUSINGS · SENSORS · SATELLITES · PCBs · PAYLOADS

In production. Manufactured in Dallas, Texas. Independently validated under ASTM D4935-10 across the 30 MHz through 1.5 GHz sweep by an accredited third-party laboratory. Configured per program, delivered to accredited-integration point.

40–100+ dB

Attenuation
Configured per housing

ASTM D4935-10

Independently validated
Planar shielding standard

In Production

Dallas, Texas
U.S. supply chain

Grams/m²

Applied at scale
No structural load added

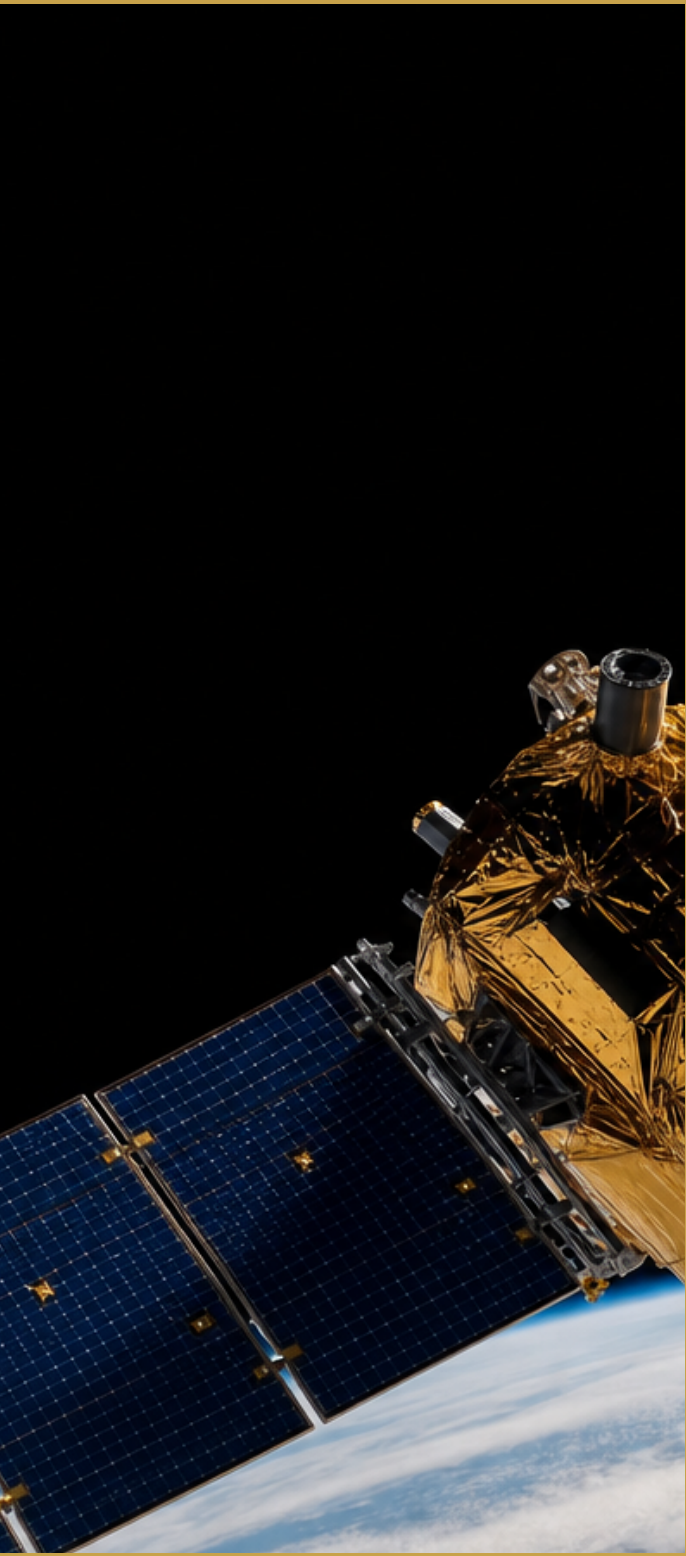
GT OPTICS, INC.

Corporate HQ: 1601 Elm Street, 48th Floor, Dallas, TX 75201
Manufacturing Facility: Dallas, Texas · Manufactured in USA · Independently validated under ASTM D4935-10
Brian Figueroa, Chairman · brian@gtoptics.io · 949-482-7825

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SATELLITE PAYLOAD

SecureWrap® coating engineered onto payload skins — signature control and HPM resilience in orbit.

MARKET & PLATFORM

One Platform. Every Component Envelope.

Sector Reality.

The threat now reaches the component. HPM weapons, directed-energy events, and cross-payload coupling degrade mission-critical electronics — sensor payloads, comm modules, satellite subsystems, and PCB-level assemblies — before those signals ever reach a shielded room. Bulk EMI cans and heavy component enclosures fight profile, weight, and cost budgets across every payload.

The GT Optics Answer.

SecureWrap® delivers component-level containment as a coating or thin-film treatment applied directly to enclosures, sensor housings, and payload skins. 40 dB to 100+ dB attenuation configured per housing, at grams per square meter, engineered against the substrate and integration geometry of the host component. Same qualified material system, applied at component scale.

GT OPTICS · DALLAS, TEXAS

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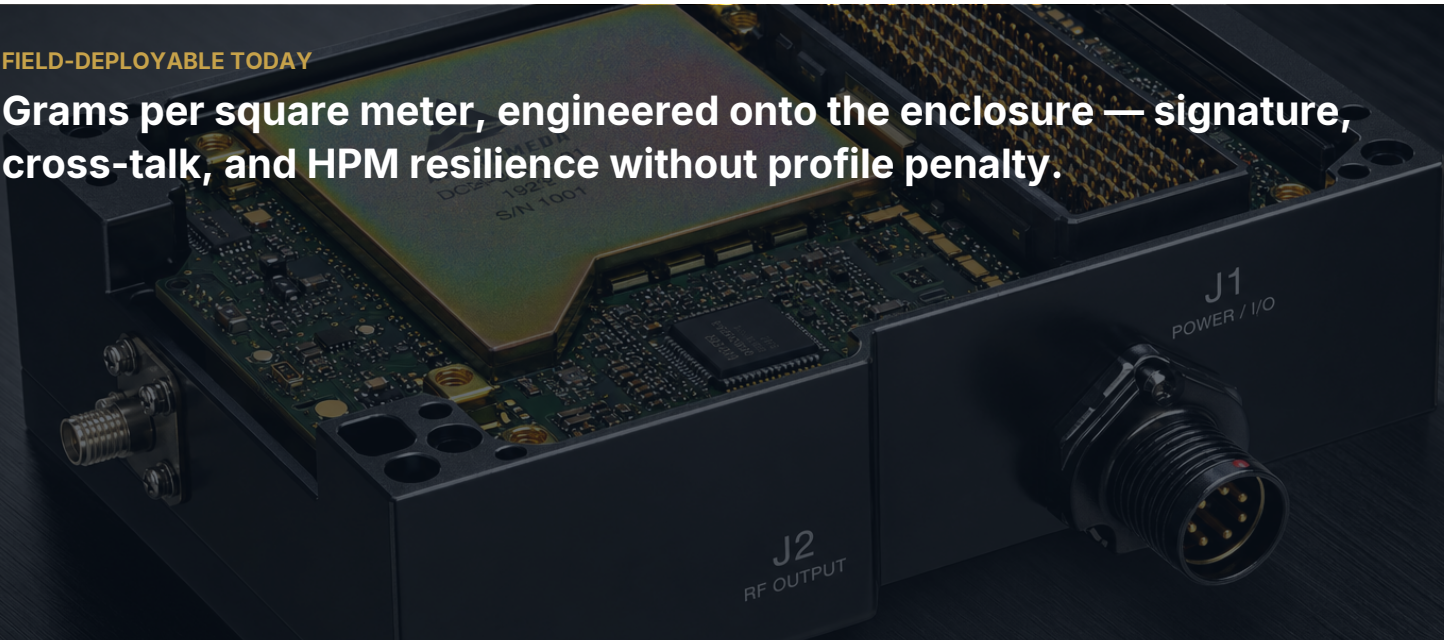
APPLICATIONS

Environments & Configurations.

APPLICATION	WHAT IT PROTECTS	GT OPTICS CONFIGURATION
Electronic housings	Comm modules, sensor housings, and mission-critical electronics enclosures.	Coating applied to enclosure skins during manufacture — configured to the payload threat profile.
Sensor payloads	Airborne, ground, and space-based sensor payloads requiring signature and cross-talk isolation.	Film or coating applied to payload skins and window adjacencies — configurable across mission bands.
Satellite subsystems	Bus panels, payload adapters, and antenna structures in commercial and defense space programs.	Coating applied at grams per square meter — engineered for launch and orbital thermal profiles.
Printed-circuit boards & shields	Board-level EMI shields, RF cans, and high-density PCB assemblies.	Coating applied to shield skins and adjacent structures — no board-level rework.
Weapon-system payloads	Guided-munition payloads, seeker modules, and fuze electronics.	Coating applied to payload skins — hardens against HPM and directed-energy across engagement window.
Ruggedized handheld & wearable	Field radios, dismount electronics, and wearable systems.	Coating applied to housing skins during manufacture — configurable per platform profile.

FIELD-DEPLOYABLE TODAY

Grams per square meter, engineered onto the enclosure — signature, cross-talk, and HPM resilience without profile penalty.



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THREAT COVERAGE

What SecureWrap® Addresses.

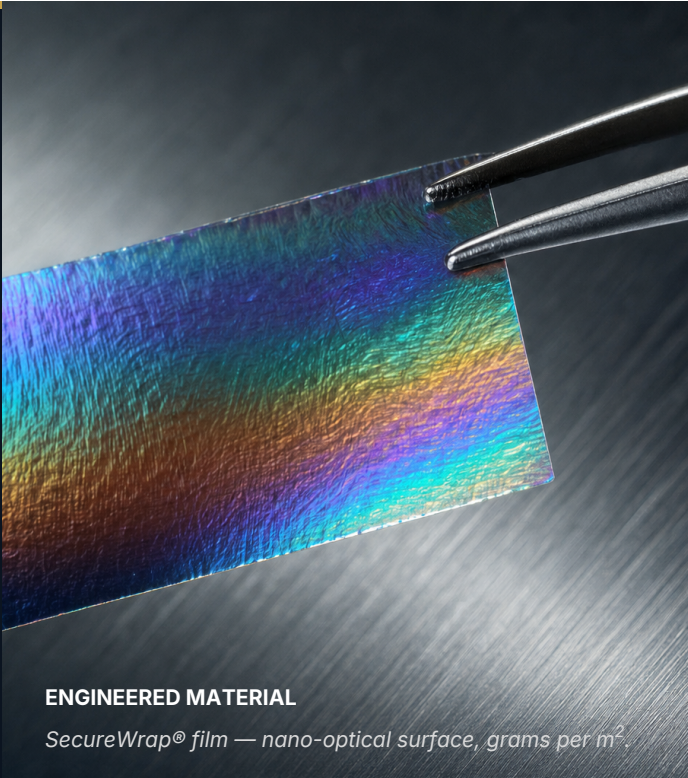
THREAT / REQUIREMENT	HOW SECUREWRAP® ADDRESSES IT
HPM and directed-energy	Engineered attenuation across HPM and directed-energy bands protects component electronics from pulsed and continuous threats.
Cross-payload coupling	Isolates sensor and comm payloads sharing bus structures — protects signal integrity across shared adjacencies.
Signature (RF / IR)	Component-level signature reduction across RF and IR bands — engineered onto the enclosure, not bolted on.
EMI and self-interference	Reduces onboard emitter self-coupling and cross-talk between shared component groups.
Weight, profile, thermal budget	Applied at grams per square meter to existing enclosures — no structural load or thermal penalty.
Manufacture cycle disruption	Applied during component manufacture — no rework, no board-level integration change.

INDEPENDENT VALIDATION

Validated, not promised.

Every performance figure traces to an independent third-party report on file. SecureWrap® is qualified under ASTM D4935-10, the planar-material shielding-effectiveness standard, at an accredited third-party laboratory across the 30 MHz through 1.5 GHz sweep. Attenuation is configurable from 40 dB to 100+ dB per program — engineered against the host substrate, film stack, and integration geometry. Configuration-specific qualification is performed at the integration point by the accrediting authority.

- ASTM D4935-10
Planar-material shielding-effectiveness standard
- 30 MHz – 1.5 GHz sweep
Independently swept frequency band by accredited lab
- 3rd-party laboratory
Accredited reports on file per configuration



ENGINEERED MATERIAL
SecureWrap® film — nano-optical surface, grams per m².

WHY SECUREWRAP® FOR COMPONENT PROTECTION

The Case for the Platform.

- **Component-grade attenuation, film-thin.** 40 dB to 100+ dB per housing with no dead-weight or thermal penalty — independently validated under ASTM D4935-10.
- **Applied during manufacture.** Coating on enclosure skins during production, film on assembled housings during integration — same material platform, every form factor.
- **Full-spectrum by design.** One optical stack engineered simultaneously across RF, IR, and directed-energy bands.
- **U.S.-domiciled supply.** Manufactured at the GT Optics facility in Dallas, Texas; tested through accredited third-party laboratories.

THE PLATFORM ADVANTAGE

"Mastering the spectrum of stealth — in production today, manufactured in Dallas, Texas, validated by accredited third-party laboratories."

TYPICAL BUYERS & INTEGRATION PARTNERS

Who We Work With.

- **Prime defense electronics integrators.** Sensor, comm, and mission-electronics program teams.
- **Satellite bus & payload primes.** Commercial and defense space programs across GEO, MEO, and LEO.
- **Weapon system primes.** Guided munition, seeker, and fuze programs requiring HPM and directed-energy hardening.
- **Rugged and dismounted electronics OEMs.** Field radio, dismount electronics, and wearable program teams.



MANUFACTURED IN DALLAS, TEXAS

Hardening the component itself.

READY FOR BRIEFING

Talk to GT Optics.

Full white papers, capability briefs, product one-pagers, and test reports available on request.

DIRECT CONTACT

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