

DATA CENTERS

Defending the Compute Fabric.

Physical-layer electromagnetic protection engineered for hyperscale, AI-training, colocation, and government-cleared compute — where signal integrity, cross-hall isolation, and threat resilience are now a compute-tier requirement.

HYPERSCALE · AI · COLOCATION · EDGE · GOVERNMENT

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 across bands
Configured per hall

ASTM D4935-10

Independently validated
Planar shielding standard

In Production

Dallas, Texas
U.S. supply chain

Retrofit

or new build
No demolition required

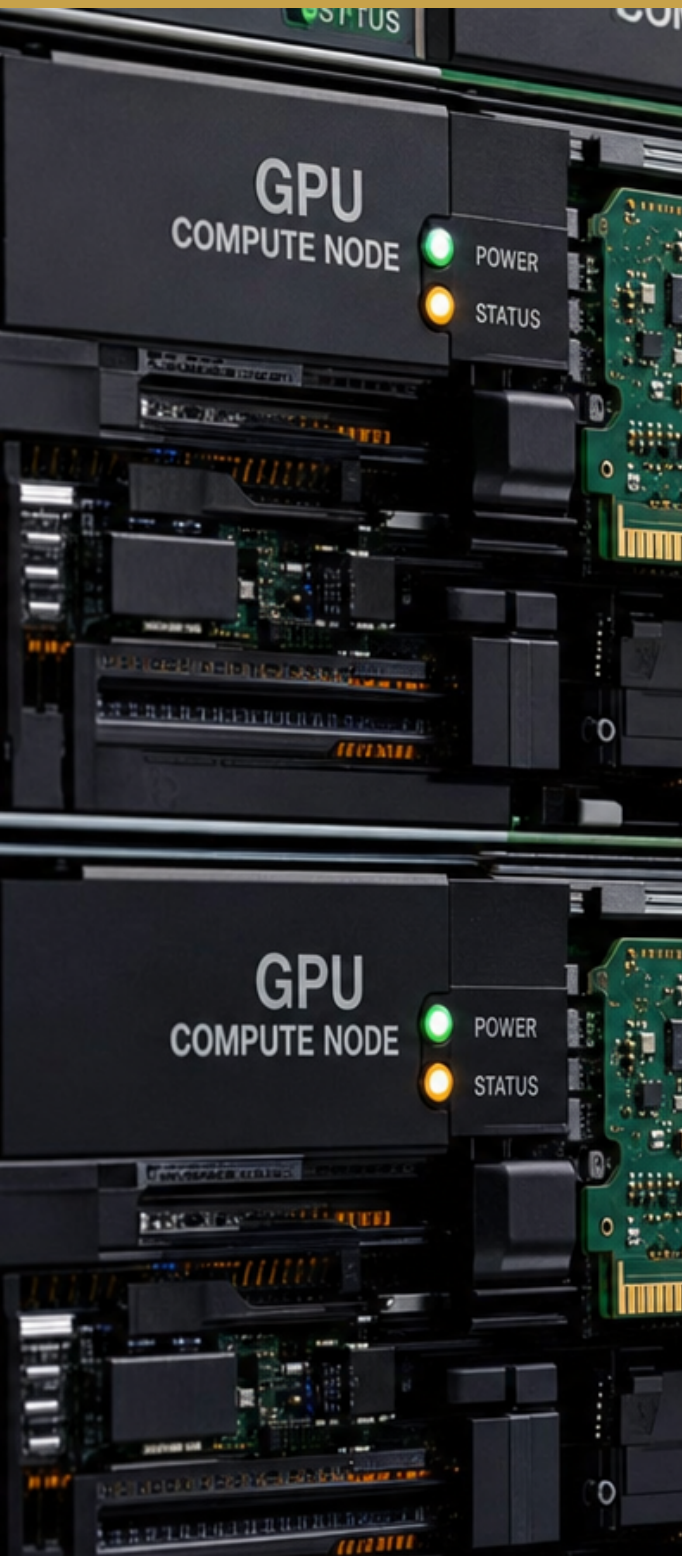


GT OPTICS, INC.

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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MARKET & PLATFORM

One Platform. Every Compute Envelope.

Sector Reality.

AI-training clusters and hyperscale halls now aggregate megawatts of switching noise in close spatial density. RF emissions cross hall boundaries. HPM pulses and stray EMI degrade signal integrity across adjacent tenants and shared power distribution. Traditional shielding — copper mesh, sheet-metal partitions, Faraday enclosures — trades weight, cost, and construction cycles that hyperscale operators cannot absorb at build velocity.

The GT Optics Answer.

SecureWrap® delivers hall-level and rack-level electromagnetic containment as a thin-film material system, applied to existing walls, cable trays, and equipment skins during commissioning or retrofit. 40 dB to 100+ dB attenuation per program, no structural load, no floor-plan disruption. A single qualified platform spans commercial hyperscale and government-cleared compute — accreditation-ready at integration.

BACK-LEVEL INTEGRATION

SecureWrap® applied at the compute-adjacent fabric — cross-talk and RF containment without racks pulled from service.

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APPLICATIONS

Environments & Configurations.

APPLICATION	WHAT IT PROTECTS	GT OPTICS CONFIGURATION
Hyperscale halls	Cross-hall RF containment and EMI isolation between adjacent halls and tenants.	Wall-system film or coating tuned to the aggregate switching-noise profile of the tenant workload.
AI training clusters	GPU-dense clusters where power switching and cooling drive stray-emission risk.	Rack-adjacent film integration and cable-run treatment — installed during commissioning.
Colocation cages	Tenant-tenant isolation and secure-cage build-outs.	Retrofit film application to existing cages — configurable per tenant SLA.
Government-cleared compute	Cleared spaces for federal, DoD, and intelligence workloads.	SCIF-grade attenuation applied to hall envelopes and secure adjacencies — accreditation-ready.
Edge & modular deployments	Rapidly deployable modular data-center units at forward and commercial locations.	Factory-integrated film treatment of modular skins — accreditation-ready on arrival.
Central offices & telecom cores	Cross-talk and secure-signaling containment across shared compute fabric.	Cable-run treatment and secure-room hardening across the compute-adjacent fabric.

FIELD-DEPLOYABLE TODAY

Deployed at the boundaries that matter — hall envelopes, cage walls, cable runs, and rack skins — without breaking commissioning velocity.

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THREAT COVERAGE

What SecureWrap® Addresses.

THREAT / REQUIREMENT	HOW SECUREWRAP® ADDRESSES IT
Cross-hall RF emissions	Broadband attenuation between MHz and radar-band prevents unintentional RF leakage across hall boundaries.
HPM and pulsed events	Hardens compute halls against pulsed and high-power microwave events without cage construction.
EMI and inter-rack cross-talk	Isolates racks and cages within shared facilities — protects signal integrity across adjacent tenants.
Directed-energy threats	Engineered attenuation across optical and directed-energy bands where the mission or SLA requires it.
Signal reconstruction (TEMPEST-adjacent)	Physical-layer barrier defeats remote signal reconstruction across cage and hall boundaries.
Retrofit disruption	Applied to existing surfaces — no demolition, no floor-plan changes, no cage rebuild.

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

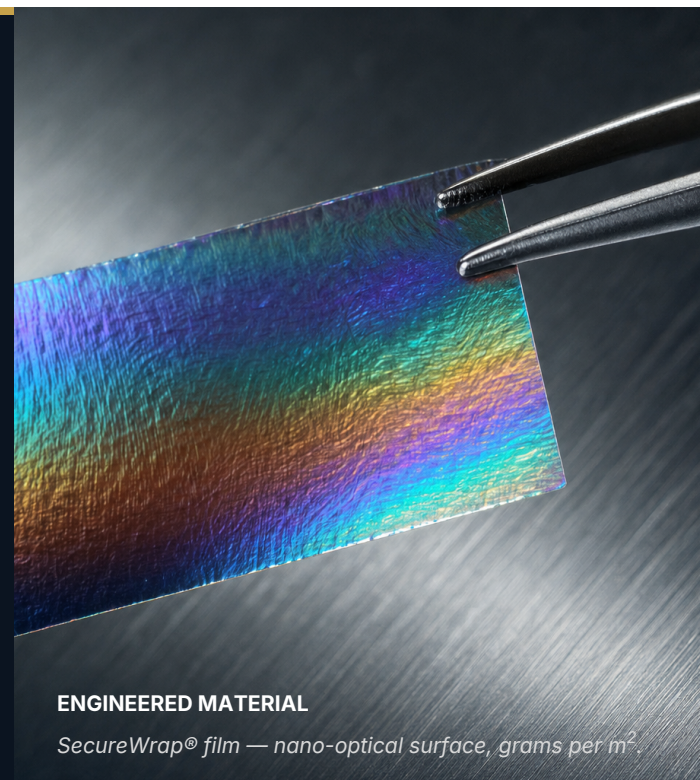
Planar-material shielding-effectiveness standard

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.

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WHY SECUREWRAP® FOR DATA CENTERS

The Case for the Platform.

- **Compute-tier attenuation, film-thin.** 40 dB to 100+ dB attenuation configured per hall — independently validated under ASTM D4935-10 without cage construction or dead-weight added.
- **Retrofit or new-build velocity.** Film during commissioning, coating during construction, factory-applied for modular units — same material platform across every operating tier.
- **Full-spectrum by design.** One optical stack engineered simultaneously across RF, IR, and directed-energy bands — not stacked one-off treatments.
- **U.S.-domiciled supply.** Manufactured at the GT Optics facility in Dallas, Texas; tested through accredited third-party laboratories.

TYPICAL BUYERS & INTEGRATION PARTNERS

Who We Work With.

- **Hyperscale operators & cloud programs.** Hall-level and cage-level containment across commercial and government-cleared compute.
- **AI-infrastructure builders.** GPU-dense training clusters and inference halls requiring cross-hall isolation.
- **Colocation providers.** Multi-tenant cage build-outs and secure-cage compliance programs.
- **Federal & DoD compute programs.** Cleared compute halls and secure adjacencies across DoD, intelligence, and federal customers.



MANUFACTURED IN DALLAS, TEXAS

Securing the compute layer.

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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