

GLOBAL LINK.

RF COHERENT RECEIVE COMBINER. SBIR-ORIGIN TECHNOLOGY (2019) WITH PATENTED ARCHITECTURE DEMONSTRATED ACROSS US SPACE FORCE, AIR FORCE, AND ARMY SMDC PROGRAMS.

LARGE ANTENNA PERFORMANCE WITHOUT THE BURDEN OF LARGE ANTENNAS

Available in Narrowband and Wideband options, GLink delivers large antenna performance without the cost, complexity or deployment burden – enhancing resiliency through proven, patent-protected technology for reliable communications.

INCREASED PERFORMANCE

Improves effective signal strength by combining multiple antennas into a single, increased-SNR output.

UNIVERSAL WAVEFORM SUPPORT

Supports multiple SATCOM waveforms across any antenna and band type.

MORE RESILIENT

Adaptive signal combining with automatic receive antenna arbitration to maintain connectivity through antenna failures.

FASTER DEPLOYMENT

Portable, modular antennas replace fixed infrastructure; no calibration required for rapid setup and field integration.

WHAT IT ENABLES

- Increased SATCOM throughput
- Coherent multi-antenna performance gain
- Multi-orbit-capable (LEO/MEO/GEO)
- Resilient and reliable distributed antenna architecture

WHERE IT'S USED

- Ground, sea and airborne SATCOM platforms
- Mobile or Fixed use cases
- Contested environments
- Signal monitoring
- Multi-orbit operations

GLOBAL LINK.

RF COHERENT RECEIVE COMBINER.

RF & PERFORMANCE

- ✓ **Narrowband:** 250 MHz – 3 GHz tuning range, 200 kHz – 80 MHz bandwidth
- ✓ **Wideband:** Lower 950-1600MHz bandwidth (default) // Upper 1500-1750MHz bandwidth
- ✓ 1 Hz tuning resolution
- ✓ 4 antenna inputs (combine any 2, 3 or 4)
- ✓ 2.8dB to 5.6dB receive gain increase (2 to 4 antennas)
- ✓ Patent-protected core IP (U.S.)
- ✓ Real-time coherent signal combining
- ✓ Adaptive phase / frequency / delay alignment
- ✓ Supports mixed antenna architectures (dish, phased array, flat panel)
- ✓ AGC / MGC control modes
- ✓ Software-defined RF processing

CAPABILITY & INTEGRATION

- ✓ Deterministic processing latency across configurations
- ✓ REST API (Ethernet control)
- ✓ 3RU rack-mount architecture (1RU Combiner + 2RU RFFE)
- ✓ Designed for fixed-site and transportable deployments
- ✓ No calibration required