



MEET ESTELLA



**Two Access Modes
One Platform
Zero Glitches.**

Maximize Performance
and Cut Costs with Dynamic
Waveform Switching

THE ESTELLA ECOSYSTEM

Estella is a disruptive SATCOM platform built for secure, adaptive, and efficient connectivity. ESTELLA is the brain of your satellite network.

Powered by open DVB-RCS2 standards and SpaceBridge innovations like 3D-TDMA, WaveSwitch™, and Dynamic Rate Assignment (DRA), ESTELLA dynamically optimizes link performance in real time—ensuring seamless communications in the most challenging environments.

Key Capabilities

- 3D-TDMA for precise per-remote waveform control
- WaveSwitch™ empowers real-time SCPC carrier creation, uniquely optimized for every remote.
- Intelligent ACM and DRA ensure uninterrupted connectivity—even in challenging conditions, from heavy rain to Ku and Ka band fluctuations.
- Built-in AES-256 encryption and FHSS for robust physical-layer security
- Designed for GEO operations
- Modular and scalable—from 10s to 1000s of remotes

From military command centers and remote industrial sites to mobile broadband and IoT networks, ESTELLA is your central command for uninterrupted, cost-efficient connectivity.

More than a platform, Estella is a synchronized intelligence environment. Everything in our portfolio—from high-performance modems to rugged terminals and smart antennas—has been engineered to work with ESTELLA and for ESTELLA.

Together, they form an interoperable, fully integrated SATCOM infrastructure.

Hub & Intelligence Layer

- **ESTELLA Core Hub:** Intelligent command scheduler with dynamic waveform control
- **Redundant & Mobile Hubs:** Designed for failover, ready for field

Terminal Layer

- **U7720/U7800 Series:** Rugged SATCOM modems—WaveSwitch™-enabled
- **U7705 SCADA & IoT Units:** Lightweight, reliable, cost-efficient
- **Manpack/Vehicle Kits:** Compact and field-ready, optimized by ESTELLA

Antenna & RF Layer

- **4m/8m Teleport Antennas:** Power for the backbone
- **Flat Panel & Mobile Antennas:** Agile, ESTELLA-synced
- **BUCs, LNBs, and Filters:** Tuned to maximize spectral efficiency under ESTELLA's control

Monitoring & Control

- **SpaceBridge NMS:** One-click control. Real-time intelligence.





With 30+ years of satellite engineering excellence, SpaceBridge builds networks that perform in the real world.

Our technologies are trusted by militaries, enterprises, and service providers across the globe.

From mission-critical operations to emerging IoT networks—ESTELLA delivers unmatched performance where it matters most.

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ESTELLA

by SpaceBridge

**It's not just the solution you need today...
It's the one you'll rely on for years to come.**