

CONNECTIVITY

AstraPNT

WHEN GLOBAL POSITIONING SYSTEMS FAIL AND THE MISSION IS CRITICAL

AstraPNT IS OUR TURNKEY ALTERNATE POSITIONING NAVIGATION TIMING (APNT) SOLUTION.

AstraPNT keeps operations connected when GNSS is jammed, spoofed, or simply unavailable. Engineered as a rugged, software-defined outdoor receiver, AstraPNT will:

- **monitor and select** PNT data from GNSS and multiple alternative sources in real time.
- **output a GPS L1** compatible signal your equipment already understands – no redesign, no downtime.
- **ensures** consistent connectivity to keep systems synchronised, teams aware, and your mission on track even in the most contested environments.

BATTLEFIELD-PROVEN. READY NOW.

AstraPNT delivers the resilience to operate with confidence where GNSS alone cannot.

WHY YOU NEED IT

Resilient communications in austere and remote locations within range of threat GPS jammers.

Ground fixed and mobile operations in close proximity to battlefield GPS jamming bleed over high-bandwidth data exchange and assured Command and Control (C2) in remote, harsh environments – even when operating close to GPS jammers.

Critical APNT reliability for commercial and energy-sector operations in isolated or hard-to-reach areas.

Robust connectivity for Unmanned Ground Vehicles (UGVs) during expeditionary missions exposed to coastal GPS-jamming threats.



APPLICATIONS INCLUDE:

Intelligence gathering

Continued high-bandwidth information sharing when in proximity to GPS jammers and in remote and challenging positions.



PACE communications planning

Ensures SATCOM terminal continuity for military forces as part of their Primary, Alternate, Contingency, Emergency (PACE) plan.



Combat operations

Enables military forces to stay connected in GNSS-challenged environments and pass orders effectively.



Critical connectivity

Enables connectivity when battlefield commanders must communicate across all echelons.



WHY EUTELSAT

Eutelsat is the only fully integrated European GEO-LEO satellite service provider, and benefits from 50 years of experience in the satellite communications industry.

Our unique suite of in-orbit assets, ground infrastructure, features and plans enables us to deliver connectivity for customers everywhere.

Working with trusted Distribution Partners (DPs), we support a rapidly expanding range of satellite services to meet demand. Together, we excel at partnership, flexibility and delivery, through communications solutions that are essential for real-time data sharing, operational efficiency and information superiority across key domains – land, sea, and air.

MAIN FEATURES

- Configuration via USB-Type A
- Operational status via LEDs, with blackout ability
- Serial ports open (RS232 and RS422) allow daisy-chain with external NMEA-183 sources (Inertial, gyro, etc.)
- Provides output of 1PPS to synchronise external devices
- 4-hour holdover (when no source signal is available)
- Ingress Protection IP65

SPECIFICATIONS

- RF Input with the appropriate antenna
- GPS and Galileo L1, L2 and L5 frequency bands
- GLONASS G1 frequency band
- APNT Broadcast Service

MODES OF OPERATION

- User defines priority order of source (GNSS or APNT)
- Detects spoofing and jamming, logic implemented to auto-switch source
- Uses source of position regardless of source of timing
- Transitions smoothly (no loss of timing) when switching across PNT sources