



SUNON
TECHNOLOGY



***Ground Based GNSS Signal
Simulation Unit***



Ensure reliable and predictable GNSS conditions with our Ground Based GNSS Signal Simulation System. Designed for fixed installations, this system generates controlled satellite navigation signals to support environments where GNSS reliability, consistency, and policy compliance are critical. It enables organizations to create predictable GNSS scenarios for evaluation, training, and operational assurance.

Key Features

- Multi Band GNSS Signal Simulation – Supports major global navigation satellite systems for comprehensive coverage.
- Controlled GNSS Environment Management – Creates stable, policy aligned GNSS conditions.
- Navigation Behavior Shaping – Supports predictable GNSS dependent system responses.

- Support for GNSS-Dependent UAV Systems – Ideal for reliable testing and operational validation.
- Policy Driven Signal Control – Ensures compliance with operational guidelines.
- Ground Based, Fixed Installation – Designed for long-term, stationary deployment.
- Optimized for RF Sensitive Environments – Minimizes interference while maintaining performance.

Technical Specifications

| Supported GNSS Bands | |
|----------------------|--|
| GPS | L1 – 1575.42 MHz, L2 – 1227.60 MHz, L5 – 1176.45 MHz |
| GLONASS | L1 – 1602 MHz, L2 – 1246 MHz |
| BDS | B1 – 1561.098 MHz, B2 – 1207.14 MHz |
| Galileo | E1 – 1575.42 MHz, E5a – 1176.45 MHz |
| QZSS | L1 – 1176.45 MHz |

System Characteristics

- System Type: Ground-based GNSS signal simulation and management system
- Operational Mode: Controlled GNSS signal generation and environment management
- Installation: Fixed deployment for long-term operation