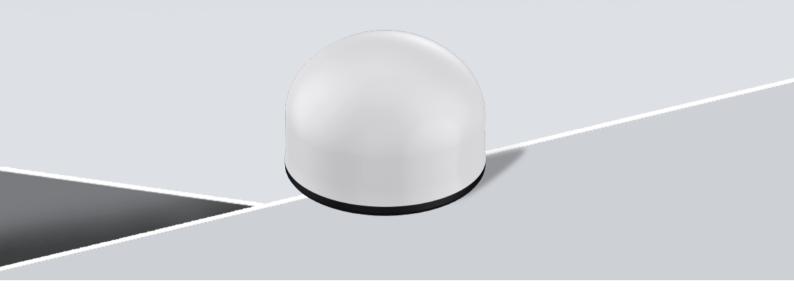


R51 GNSS Receiver

A versatile monitoring receiver suitable for multiple uses



WHY CHOOSE ALLYNAV R51 GNSS RECEIVER

The R51E versatile monitoring receiver integrates a large-capacity battery, storage card, attitude sensor, Bluetooth, dual 4G modules, and a high-precision positioning board. With an IP67 protection rating, it is designed to operate reliably in harsh environments. The device supports real-time monitoring, intelligent analysis, online supervision, and early warning functions. It can also serve as a ground-based augmentation network base station, offering flexibility for multiple uses.

© KEY FEATURES



Multi-constellation and multi-frequency positioning



Built-in solar power supply



High precision with low power consumption



Remote configuration and upgrade



IP67 protection rating



Large-capacity storage with data loop recording



High-Precision Positioning

Utilizes multi-constellation and multi-frequency systems like BDS, GPS, GLONASS, and Galileo to maintain high accuracy in various complex environments.

Powerful Power Supply System

Supports multiple power sources, including mains electricity, batteries, and solar power, ensuring stable operation across different application scenarios.

High Integration Design

The all-in-one design integrates multiple functional modules, reducing dependence on external devices and enhancing overall system performance and reliability.

Remote Management and Monitoring

Supports remote configuration and upgrades, allowing users to monitor device status and data in real-time through the platform, improving management efficiency.



Precision Indicators	Signal Tracking	PHYSICAL PERFORMANCE
Single Point Positioning:	BDS: B1I/B2I/B3I/ B1C/B2a/B2b	Operating temperature:-45°C to +75°C
Horizontal: 1.5m Vertical: 2.5m	GPS: L1C/A/L1C/L2C/L2P (Y) /L5	Storage temperature:-55°C to +85°C
RTK Accuracy:	GLONASS: G1/G2/G3	Physical dimensions: φ196.7mm × 129.5mm
Horizontal: 8mm+1ppm(RMS) Vertical: 15mm+1ppm(RMS)	Galileo: E1/E5a/E5b/E6	Weight: <1.65kg
Static Accuracy:	QZSS: L1C/A/L1C/L2C/L5	Ingress protection rating: IP67, floatable
Horizontal: 2.5mm+1ppm(RMS) Vertical: 5mm+1ppm(RMS)	NavIC: L5	Impact and vibration: Resistant to 2m drops
Speed Accuracy: 0.03m/s	SBAS: L1C/A	Indicator: 6 LED indicators
Electrical Parameters	Time of cold boot: <12s	Data Interfaces
Power Consumption: 1.5 to 4.0 W	Initialization time: <5s (typical value)	Differential Data: RTCM3.2
Supply voltage: 9 to 36V DC, supporting	RTK initialization reliability: >99.9%	Communication:GSM 4G module
power-on auto-start, reverse connection	Recapture: <1s	Bluetooth: BT4.0, backward compatible with BT2.X
protection		Network: TCP, NTRIP









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