

# GNSS BASE STATION POLYNAV 2000B



The Polynav 2000B GNSS Base Station is a ruggedized dual-frequency (L1/L2) multi-constellation GNSS (GPS, QZSS, GLONASS, Beidou, Galileo) reference station which can be easily configured as a local base station to broadcast real-time RTCM corrections for any RTK-capable rover systems. User-friendly GUI is available to setup a base station quickly by either connecting to the rover through local radio link or NTRIP caster/client (network RTK). The system can also record all tracked dual frequency multi-constellation measurements for post-processing.

## FEATURE

- Dual frequency (L1+L2) Multi-constellation (GPS, GLONASS, Beidou, Galileo and SBAS)
- Up to 50 Hz position/velocity/observables output
- Fast Search Engine to improve TTFF
- RTK Networks Supported
- Reference Inputs/Outputs: RTCM 3.2, RTCM2.3
- Rugged system design
- Low power consumption

## BENEFITS



BREAK THROUGH PRICE



MULTI I/O INTERFACE



NETWORK BASED RTK



RUGGED



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# TECHNICAL DATA

## GNSS BASE STATION POLYNAV 2000B

### GNSS SIGNALS

**GPS** L1+L2  
**QZSS** L1+L2  
**BeiDou** B1+B2  
**GLONASS** G1+G2 FDMA  
**GALILEO** E1+E5b  
**SBAS** L1

### GNSS SENSOR PERFORMANCE

#### Time to First Fix (TTFF)

Cold start: < 60 seconds  
Warm Start: < 45 seconds  
Hot Start: < 11 seconds  
Signal re-acquisition: < 2 seconds

Position accuracy (HRMS), SBAS: 0.50 m  
Update rate: Up to 50 Hz  
Velocity Accuracy: 0.02 m/sec HRMS

### RTK POSITIONING PERFORMANCE

Accuracy (HRMS): 8 mm + 1 ppm  
Initialization time: < 1 min typical  
Operating range: > 40 km

### PHYSICAL & ENVIRONMENTAL CHARACTERISTICS

Operating temperature: -40° to +85°C (-40° to +185°F)  
Input Voltage: 12 ~ 24 VDC +/- 5%  
Power Consumption: <3W

### I/O INTERFACE

1 PPS Out  
2 DB9 serial ports  
1 ethernet port

### ANTENNA POWER SPECIFICATIONS

Output Voltage 5v  
Output current 100mA



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