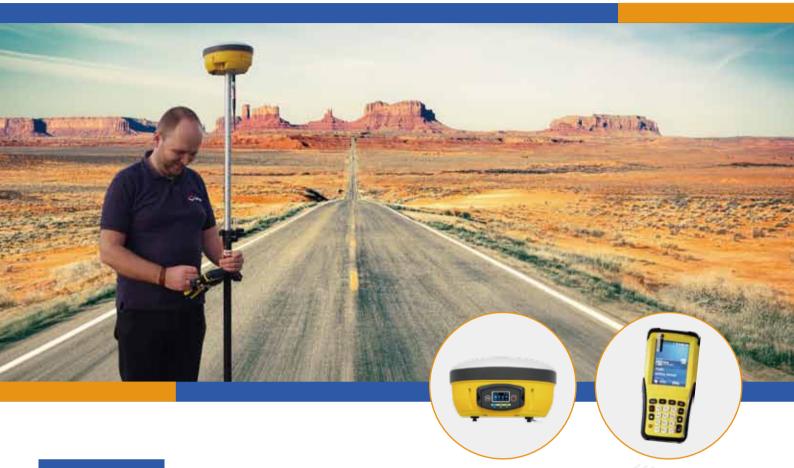


# **G9 GNSS Receiver**



# Features

- Equipped with "Lyra" chip and "Athena" calculation engine
- International advanced GNSS Board GPS/Glonass/Beidou/Gallieo full frequency antenna
- GE nano Material shell/smart host/Cortex-M3 Processor/Linux Platform/Quick Firmware Upgrade/TF card memory expansion /Multifunctional Composite Keys/OLED Display/Fast Self-check/Integrated Rubber-Circle/Industrial-grade Bluetooth Version 2.0/ 3G network Module/Support Self-built Ntrip Server
- Internal Radio Rx/Tx / External 35W Big UHF Radio/Compatible with all UHF Radio/UHF + ENET Dual Standby
- GIS Data Collector
- •Original Imported LEMO connectors/Pass the EMC

Equipped with the fifth generation of "Lyra" chip and "Athena" calculation engine, performance in the long baseline in weak signal environment particularly well. Support A-RTK aided measurement (Star chain continuation of the journey) technology, In the case of disconnecting the base station differential signal (whether radio or network signals), the rover continues to maintain a fixed accuracy solution of a certain time (15-30min), providing the user with uninterrupted measurement of new experience!



# **Technical Specifications**

## Signal Tracking

394 channels satellite signals

-GPS: L1 CA, L1P, L1C, L2P, L2C, L5

-BeiDou: B1, B2, B3 -GLONASS: G1, G2, P1, P2 -GALILEO:E1BC, E5a, E5b

## Performance Specifications

Cold start: <50 s Warm start: <30 s Initialization time: <10 s Singal re-acquisition: <2 s Initialization reliability: >99.9%

## Positioning Specifications

#### Post Processing Static

-Horizontal: 2.5 mm + 1 ppm RMS -Vertical:5 mm + 1 ppm RMS

Real Time Kinematic

-Horizontal: 10 mm + 1 ppm RMS -Vertical: 20 mm + 1 ppm RMS

Atlas: H10:0.08m SBAS:0.3m

## **Physical**

Size (W x H): 184mmx96mm Weight: 1.2kg (include battery)

Button: FN + Power

Display:128x 62 OLED Screen

### P9 controller

Operation system: Windows Mobile6.5 Processor:TI Sitara™ AM335x 1GHz

RAM:512MB ROM: 8G

Screen: 3.7inch Blanview TFT transflective screen,

480×640VGA resolution ratio

Battery: 25.16W big capacity battery, single battery

endurance>10hours

Communication:Bluetooth, Version2.1+EDR, USB OTG (directly conenct Uflash disk)

Communication module: 3.5G WCDMA 900 / 2100MH

WIFI: WLAN 802.11b/g

### **Data Format**

#### Data inputs/outputs

-Correction data 1/0: RTCM 2.X, 3.X, CMR, CMR+

#### Position data outputs

-ASCII: NMEA-0183 -Binary update to 50Hz

#### Environmental

Operating temperature: -40°C to +65°C

(-40°F to 149°F)

Storage temperature: -40°C to +75°C

(-40°F to 167°F)

Humidity: 100% condensation

Waterproof and dust proof: IP67 protected from temporary immersion to depth of 1 meter, floats Shock: survives a 2 meter drop on to concrete

### Electrical

Input Voltage: 9-18 VDC

Liion battery capacity: 2 x Rechargeable and Removable 3400 mAh Lithium-ion Battery up to

10 hours typically

#### Software

Esurvey field data collection software SurveyCE data collection software

## Communications and Memory

1 Serial port (7 pin Lemo),

1 Serial port (5 Pin Lemo),

2 TNC antenna,

Memory: 256 MB internal with up to 32GB pluggable

memory card

Baud rates Up to 115,200 bps

Radio modem:

-Integrated GSM/GPRS modem

-Integrated Bluetooth V2.0 class 2

-Radio modem internal Rx/Tx: 410-470 MHz

-External Tx : 5W 35W adjustable

Communication protocol

-Transparent,TT450S,South,TrimMask 111(19200),South 19200 Position data outputs, 1Hz Standard, 5Hz/10Hz Optional

