NavSat
EL-G2-66

Key Features

- Multi-GNSS engine for GPS, GLONASS and QZSS
- Module Size Dia: 54mm
- Support short circuit protection and antenna detection
- Built-in LNA for better sensitivity
- EASY™": Advanced AGPS technology without external memory
- Ultra low power consumption in tracking mode: 26mA
- AlwaysLocate™: an intelligent controller of periodic mode
- LOCUS: innate logger with no requirement for host & external flash
- High sensitivity: -167dBm@Tracking , -148dBm@Acquisition
- 99 acquisition channels, 33 tracking channels
- Supports DGPS, SBAS(WAAS/EGNOS/MSAS/GAGAN)
- Anti-Jamming, Multi-tone Active Interference Canceller
- MTK 3333 chipset
- 66 channel
- Magnetic Mount
- Built in quick start circuit
- USB 2.0 interface

The NavSat EL-G2-66 is a "Make in India" initiative of tech startup Navtek India NavSat is one of the most powerful super compact dual GNSS engine of GPS & GLONASS. With 66 channel high sensitive GPS receiver the ultra mini dome antenna has lower power consumption and works over Windows, mac OS & Linux. The EL-G2-66 is powered by the MTK3333 chip which has the fastest cold start speed of <31 seconds as compared to other GPS in the market.

The high sensitivity coupled with 66 channel GNSS system is a class of its own and provides accurate geolocation in the harshest of the environment. The MediaTek's new generation GNSS chipset makes it the most powerful device of this kind with unmatched perfect performance in both acquisition and tracking.

Combining advanced AGPS technology called EASY™ (Embedded Assist System) and the proven Always Locate™ technology, EL-G2-66 exceeds industry standards with high accuracy even at indoors with low signal levels. The EASY technology enables EL-G2-66 to calculate and predict orbits automatically using ephemeris data for upto 3 days in advance and stores the same in its internal flash memory.

The NavSat is a USB GPS Dongle type PnP device and works with all software programs that conform to the NMEA-0183 Standard. UIDAI Aadhaar, ECMP client and all mapping software packages will work with the NavSat.

Works well from windows 7, macOS, linux and self identifying drivers. Magnetic base for fixing on any metal surface. Inbuilt in LED to indicate power ON.

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NavSat – EL-G2-66

General Specifications

GNSS	GPS+GLONASS
Power Supply	Supply voltage: 3.5V to 5.5V typ. @5V
Power Consumption (GPS)	Acquisition: 30mA Tracking: 26mA Stand by: 1mA
Receiver Type	GPS L1 1575.42MHz C/A Code GLONASS L1 1598.0625~1605.375MHz C/A Code
Sensitivity	Acquisition: -148dBm Re-acquisition: -160dBm Tracking: -167dBm
TTFF (EASY enabled)	Cold start: 15s typ. @-130dBm Warm start: 5s typ. @-130dBm Hot start: 1s typ. @-130dBm
TTFF (EASY disabled)	Cold start (Autonomous): 35s typ. @-130dBm Warm start (Autonomous): 30s typ. @-130dBm Hot start (Autonomous): 1s typ. @-130dBm
Horizontal Position Accuracy (Autonomous)	<2.5m CEP @-130dBm
Max Update Rate	Up to 10Hz, 1Hz by default
Accuracy of 1PPS Signal	Typical accuracy <15ns (Time service is not supported) Time pulse width 100ms
Velocity Accuracy	Without aid: 0.1m/s
Acceleration Accuracy	Without aid: $0.1m/s^2$
Dynamic Performance	Maximum altitude: 18,000m Maximum velocity: 515m/s Maximum Acceleration: 4G
USB Port	Supports baud rate from 4800bps to 115200bps Default Baud rate: 4800bps
Temperature Range	Normal operation: -40℃ ~ +85℃ Storage temperature: -45℃ ~ +125℃

Embedded Patch Antenna

EASY™ Technology

Super Tracking Sensitivity -165dBm

GPS+GLONASS+QZSS

Anti-Jamming

RoHS Compliant

Low Power Consumption

Marine Navigation

High Accuracy

Personal Positioning

Automotive Navigation

Fleet Management

The NavSat USB GPS sold by EIPL and it's resellers are WAAS/ EGNOS enabled. EIPL nor their resellers can guarantee the accuracy of the system as they vary on a day to day basis. EIPL does not guarantee products bought from any unauthorised dealers.