

- 12 channel GPS receiver with Antenna
- Connects to PC USB
- Powered from USB Port
- 4000 simultaneous time-frequency search bins
- SBAS (WAAS, EGNOS) support
- High Acquisition and Tracking Sensitivity
- Rapid Acquisition Timing:
 - <45 second cold start
 - <10 second hot start
- 5m CEP accuracy
- Low power consumption: 90mA



Ideal for:

- PDA
- Laptop PC
- Navigation Systems
- And many more applications

Description

The UG-L40GM is a compact all-in-one GPS mouse solution suitable for a broad range of end product applications, where fast and easy system integration and minimal development risk is required.

Performance

The UG-L40GM is optimized for performance. Its 12 parallel channels and 4000 time/frequency search bins provide short start-up time and fast signal acquisition. Having fast time-to-first-fix and enhanced sensitivity, the UG-L40GM offers good navigation performance even in urban canyons. The satellite-based augmentation systems, such as WAAS and EGNOS, are supported to yield improved accuracy.

Integration

The onboard patch antenna provides good signal reception.

Flexibility

Both the LVTTTL-level, USB and RS232-level serial interface are provided on the interface connector. Supply voltage of 3.3V, or 3.8V~12V are supported.

Part Numbers

| Part Number | Description |
|-------------|---|
| UG-L40GM-R | RS232/TTL Interface, DB9 and PS/2 Connector |
| UG-L40GM-P | RS232/TTL Interface, PS/2 Only Connector |
| UG-L40GM-U | USB 2.0 Interface, USB Connector |



Technical Specifications

| | |
|------------------------|--|
| Receiver Type: | 12 channel L1 frequency, C/A code |
| Position Accuracy: | 5m CEP autonomous |
| Time to First Fix: | <10sec Hot Start * <35sec Warm Start * <45sec Cold Start |
| Signal Reacquisition: | < 1s |
| Sensitivity: | -137dBm acquisition -145dBm tracking |
| Dynamics: | < 4G |
| Operational Limits: | Altitude < 18,000m Velocity < 500m/sec |
| Protocol: | NMEA-0183; ver 3.01 4800/9600 baud; 8 N 1 |
| Datum: | Default WGS-84 User definable |
| Serial Interface: | LVTTL Level/RS-232 Level USB 2.0 |
| Connector: | RS232+PS/2 PS/2 USB |
| Power Supply: | 3.3V 3.3V~12V |
| Current Consumption: | 110mA peak 90mA nominal |
| Operating Temperature: | -20 °C ~ 60 °C with battery -40 °C ~ 85 °C w/o battery |
| Dimension: | 66mm×52mm×23mm |
| Weight: | 100g |

www.quasaruk.co.uk

Information contained in this document is believed to be accurate, however no representation or warranty is given and no liability is assumed by Quasar (UK) Ltd. with respect to the accuracy of such information. Use of products as critical components in life support systems is not authorised except with express written approval from Quasar (UK) Ltd.