

GPS PRODUCTS

UG-301

Reliable Positioning and Tracking

*Fast Acquisition Enhanced Sensitivity
12 Channel Bluetooth GPS Receiver*



The UG-301 is optimized for good performance and low cost. Its 12 parallel channels and 4000 search bins provide short start-up time and fast signal acquisition. Having fast time-to-first-fix and enhanced acquisition sensitivity of -137dBm and tracking sensitivity of -145dBm provides excellent navigation performance even in urban canyons having limited sky view and under deep foliage, without compromising accuracy.

Multiple SBAS systems, such as WAAS and EGNOS, are supported to yield superior accuracy.

The onboard patch antenna provides good signal reception. In situations where the UG-301 is integrated into an application where the patch antenna has limited view of the sky, external active antenna may be directly connected via the MMCX connector to provide improved signal reception.

Class 2 Bluetooth offers up to 10 meters of wireless operation with Bluetooth-enabled devices such as PDA or Tablet-PC.

Products Brief v1.1

Specifications

<i>Receiver Type</i>	<i>12 channel L1 frequency, C/A code</i>	<i>Slide Switch</i>	<i>Power ON / OFF</i>
<i>Position Accuracy</i>	<i>5m CEP autonomous 2.0m CEP SBAS</i>	<i>Battery</i>	<i>For BLC-2 type Li-ION 3.6V Rechargeable battery</i>
<i>Time to First Fix</i>	<i><10 sec Hot Start <35 sec Warm Start <45 sec Cold Start</i>	<i>DC Input Voltage</i>	<i>5.0V</i>
<i>Signal Reacquisition</i>	<i>< 1s</i>	<i>DC Input Connector</i>	<i>Mini-USB</i>
<i>Sensitivity</i>	<i>-137dBm acquisition -145dBm tracking</i>	<i>Dimension</i>	<i>80mmx50mmx26mm</i>
<i>Dynamics</i>	<i>< 4G</i>	<i>Weight</i>	<i>180g</i>
<i>Operational Limits</i>	<i>Altitude < 18,300m Velocity < 514m/sec</i>		
<i>Protocol</i>	<i>NMEA0183v3.01 Baud rate: 9600</i>		
<i>Datum</i>	<i>WGS-84 User definable</i>		
<i>Current Consumption</i>	<i>110mA</i>		
<i>Operating Temperature</i>	<i>-20°C ~ 60°C</i>		
<i>External antenna connector</i>	<i>MMCX</i>		
<i>Bluetooth</i>	<i>SPP compatible Version 1.1 compliant Class-2 operation 4dBm output level Up to 10m of operation</i>		
<i>LED Indicator</i>	<i>Blue - Bluetooth status Red - Battery low Green - Charging battery</i>		