Why choose an OriginGPS GPS/GNSS module?

+ **Small form factor**
  Utilizing the smallest PCB space possible enables end product miniaturization and plenty of space to design.

+ **Minimizes RF design challenges**
  Modules RF front-end, LNA, SAW filter, TCXO and RTC are all integrated, while Hornet modules also include an integrated antenna.

+ **Superior RF performance**
  Noise Free Zone (NFZ) technology eliminates ground currents, lowering noise floor, which results in superior C/No - the leading performance indicator in GPS/GNSS receivers.

+ **Fast TTM**
  A true plug-and-play solution with commands and data communicated over UART/I2C/ SPI in standard NMEA format.

+ **Design review included**
  Our technical team will review your schematic and board layout files. We are RF experts, so you don’t have to be.
ORG4600-B01
Dual Frequency (L1 + L5)

GNSS module in compact 10x10 mm footprint

Ideal for IoT and OBD applications requiring sub-1m positional accuracy in all conditions.

The ORG4600-B01 is a dual frequency GNSS module developed with Broadcom’s L1+L5 chip for ultra-accurate GNSS positioning. The solution enables customers to build solutions with sub-1m accuracy in real-world operating conditions without implementing external components and is the industry’s smallest dual-frequency module. One RF port allows for the use of a low-cost, dual-band antenna, while an alternate build option allows for separate L1/L5 RF outputs when dual antennas are desired.

The solution is fully-integrated (dual LNA, SAW filter, TCXO), and ideally suited for solutions requiring a dual frequency combination and ultra-accurate positioning, such as autonomous vehicles and equipment, and telematics, IoT and OBD applications.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Dimensions (LxWxH) mm</th>
<th>Weight (gr)</th>
<th>DC supply (V)</th>
<th>Interface</th>
<th>Accuracy (m)</th>
<th>I/O Voltage (V)</th>
<th>Update rate (Hz)</th>
<th>Internal memory</th>
<th>GNSS SOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x10x1.95</td>
<td>0.4</td>
<td>2-5.5</td>
<td>UART/I2C</td>
<td>&lt;1</td>
<td>1.8</td>
<td>1</td>
<td>Flash</td>
<td>BCM477S8</td>
</tr>
</tbody>
</table>

### FEATURES

- RAW output for RTK corrections
- L1 static drift elimination
- Integrated geo-fencing
- Superior multipath rejection
- Injected Ephemeris support
- Positional accuracy at low velocity
- Superior tracking in Urban Canyon Environment
- Supported Constellations
  - L1 (1559 – 1606 MHz); GPS, GLONASS, Galileo, BeiDou
  - L5 (1166 – 1187 MHz); GPS, Galileo, QZSS, IRNSS