COMPACT, DUAL ANTENNA, DUAL-FREQUENCY GNSS RECEIVER DELIVERS ROBUST RTK FUNCTIONALITY AND ALIGN® HEADING CAPABILITY

HIGH PRECISION GNSS, COMPACT SIZE
The dual-frequency, dual antenna OEM617D is NovAtel's latest addition to the powerful OEM6® family of receivers offering heading and precise positioning for space constrained applications. Backwards compatible with NovAtel’s popular OEM615™ form factor, the OEM617D provides the most efficient way to bring GNSS capable navigation and positioning products to market quickly. As with all NovAtel OEM6 receivers, the OEM617D is ready for existing GPS, GLONASS and BeiDou signals.

DUAL-ANTENNA INPUT
Dual-frequency, dual antenna input allows the OEM617D to harness the power of NovAtel CORRECT™ with RTK and ALIGN functionality. This makes the OEM617D ideal for ground vehicle, marine or aircraft based systems, providing industry leading GNSS multi-constellation heading and position data in static and dynamic environments.

DESIGNED FOR FLEXIBILITY
The modular nature of NovAtel's OEM6 firmware gives users the flexibility to configure the OEM617D for their unique application needs. Scalable to offer sub-metre to centimetre level positioning and field upgradeable with selected OEM6 family software options. Options include NovAtel CORRECT with RTK for centimetre-level real-time positioning, ALIGN for precise heading and relative positioning, GLIDE™ for decimetre-level pass-to-pass accuracy and RAIM for increased GNSS pseudorange integrity.

CUSTOMIZATION WITH AN API
Application Programming Interface (API) functionality is available on the OEM617D. Using a recommended compiler with the API library, an application can be developed in a standard C/C++ environment to run directly on the receiver platform, eliminating system hardware, reducing development time and resulting in a faster time to market.

FEATURES
+ Increased satellite availability with BeiDou, GLONASS and Galileo* tracking
+ GLIDE smoothing algorithm
+ RT-2®, ALIGN and RAIM firmware options
*Available on selected models.

BENEFITS
+ Dual-frequency RTK with precise ALIGN heading+pitch/roll
+ Dual-frequency GPS+GLONASS BeiDou RTK and ALIGN heading solution
+ Easy to integrate
+ Compact size and low power

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### PERFORMANCE

<table>
<thead>
<tr>
<th>Channel Configuration</th>
<th>120 Channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Tracking</td>
<td>Primary and Secondary RF</td>
</tr>
<tr>
<td></td>
<td>GPS L1, L2, L2C</td>
</tr>
<tr>
<td></td>
<td>GLONASS L1, L2</td>
</tr>
<tr>
<td></td>
<td>BeiDou B1, B2</td>
</tr>
<tr>
<td></td>
<td>Galileo E1, E5b</td>
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<tr>
<td></td>
<td>SBAS 0.6 m</td>
</tr>
<tr>
<td></td>
<td>QZSS 0.4 m</td>
</tr>
</tbody>
</table>

#### Horizontal Position Accuracy (RMS)

<table>
<thead>
<tr>
<th></th>
<th>Single point L1</th>
<th>Single point L1/L2</th>
<th>SBAS</th>
<th>DGPS</th>
<th>NovAtel CORRECT™</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.5 m</td>
<td>1.2 m</td>
<td>0.6 m</td>
<td>0.4 m</td>
<td></td>
</tr>
</tbody>
</table>

#### Signal Reacquisition

<table>
<thead>
<tr>
<th></th>
<th>L1</th>
<th>L2</th>
<th>Time Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt; 0.5 s (typical)</td>
<td>&lt; 1.0 s (typical)</td>
<td>20 ns RMS</td>
</tr>
</tbody>
</table>

#### Velocity Accuracy

|            | 0.03 m/s RMS |

#### Velocity Limit

|            | 515 m/s |

1. Typical values. Performance specifications subject to GPS system characteristics, US DOD operational degradation, ionospheric and tropospheric conditions, satellite geometry, baseline length, multipath effects and the presence of intentional or unintentional interference sources.
2. Tracks at least 60 L1/L2 satellites depending on model options.
3. Designed for BeiDou Phase 2, B1 and B2 compatibility.
4. GPS only.
5. L2 P for GLONASS.
6. L2 C/A for GLONASS.
7. 20 Hz on selected models.
8. Typical value. Almanac and recent ephemerides saved and approximate position and time entered.
9. Time accuracy does not include biases due to RF or antenna delay.