HIT YOUR TARGET IN ANY ENVIRONMENT
Possibilities of Navigation. Made Easy
TALIN®

Flexible, reliable, best-value INS/GPS navigator

**System Features**
- Honeywell’s next generation ring laser gyro technology combined with our best in class accelerometers for unparalleled performance in the most demanding military and commercial environments without the need for secondary shock isolation.
- Single system plug "N" play across multiple platforms - auto-configuration adaptable.
- Instant on! On-the-move alignment.
- Multiple accuracy configurations to meet different applications requirements.
- Over 15,000 TALIN systems fielded on over 60 military and commercial platforms worldwide including combat vehicles, sensor platforms, towed and self-propelled weapons, survey applications, and mining equipment.

**System Characteristics**

**Operating Ranges**
- Attitude: Alignment and orientation in any direction, and on the move
- Angular Rate: +200 deg/sec

**Reliability**
- MTBF: >50,000 hours (TALIN demonstrated)

**Power Requirements**
- 18-32 Vdc: <26 watts*

**Thermal Operating Range**
- No cooling required: -46°C to 71°C (-51°F to 160°F)

**Navigation Sensors**
- Standard/Internal: 3-axis inertial sensors
- Optional/External: VMS, PLGR, DAGR

**Software**
- Modular – partitioned for cost-effective system missionization
- Field upgradeable

**Weight**
- <13 pounds (<6kg)

**Interfaces**
- Standard: 1553A & B/RS-422/RS-232 serial host interface
- Optional: Additional RS-422/RS-232 data interface, turret encoder, laser range finders

**Form Factor**
- (excluding flanges & connectors)
  - Approx. 5.4 H x 7.6 W x 8.6 L inches
  - Approx. 14 H x 19 W x 22 L cm

**Installation**
- Can be hard mounted in any orientation

*Application and configuration dependent

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<table>
<thead>
<tr>
<th>Performance</th>
<th>TALIN 2000</th>
<th>TALIN 3000</th>
<th>TALIN 4000</th>
<th>TALIN 5000</th>
<th>TALIN 6000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HORIZONTAL POS</strong></td>
<td></td>
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<tr>
<td>INU only</td>
<td>35m</td>
<td>25m</td>
<td>18m</td>
<td>12m</td>
<td>6m</td>
</tr>
<tr>
<td>INU/VMS</td>
<td>35m</td>
<td>25m</td>
<td>18m</td>
<td>12m</td>
<td>10m</td>
</tr>
<tr>
<td>INU/VMS/GPS PPS</td>
<td>&lt;10m CEP</td>
<td>&lt;10m CEP</td>
<td>&lt;10m CEP</td>
<td>&lt;10m CEP</td>
<td>&lt;10m CEP</td>
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<tr>
<td>INU/VMS/GPS SPS</td>
<td>&lt;60m CEP</td>
<td>&lt;60m CEP</td>
<td>&lt;60m CEP</td>
<td>&lt;60m CEP</td>
<td>&lt;60m CEP</td>
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<tr>
<td><strong>HEADING/POINTING ACCURACY</strong></td>
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<tr>
<td>Specified Accuracy (RMS) at ±65° Latitude</td>
<td>&lt;4.0 mils</td>
<td>&lt;2.0 mils</td>
<td>&lt;1.0 mils</td>
<td>&lt;0.70 mils</td>
<td>&lt;0.50 mils</td>
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<tr>
<td>sec(lat)</td>
<td>&lt;1.69 mils</td>
<td>&lt;0.85 mils</td>
<td>&lt;0.42 mils</td>
<td>&lt;0.3 mils</td>
<td>&lt;0.21 mils</td>
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<td><strong>PITCH AND ROLL ACCURACY</strong></td>
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<tr>
<td>RMS</td>
<td>&lt;1.00 mils</td>
<td>&lt;1.00 mils</td>
<td>&lt;0.50 mils</td>
<td>&lt;0.35 mils</td>
<td>&lt;0.25 mils</td>
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<tr>
<td><strong>MAX ALIGNMENT TIME</strong></td>
<td></td>
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<tr>
<td>Maximum Static Alignment Time</td>
<td>&lt;5.0 minutes</td>
<td>&lt;5.0 minutes</td>
<td>&lt;10.0 minutes</td>
<td>&lt;15.0 minutes</td>
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<tr>
<td>Maximum Dynamic Alignment Time</td>
<td>&lt;12.0 minutes</td>
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<td>&lt;12.0 minutes</td>
<td>&lt;16.0 minutes</td>
<td>&lt;16.0 minutes</td>
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<tr>
<td>Typical Alignment Time (28° Latitude)</td>
<td>&lt;2.5 minutes</td>
<td>&lt;3.0 minutes</td>
<td>&lt;4.5 minutes</td>
<td>&lt;5.5 minutes</td>
<td>&lt;5.5 minutes</td>
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Values shown are per definitions in TALIN system specifications

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