eTALIN II
INS/GNSS NAVIGATOR
WITH EMBEDDED GPS RECEIVER
eTALIN II

INS/GNSS Navigator with Embedded GPS receiver

We have combined Honeywell’s next-generation ring laser gyro technology with our best-in-class accelerometers, achieving unparalleled performance in the most demanding military and commercial environments without the need for secondary shock isolation.

SYSTEM FEATURES

• Single system plug “N” play across multiple platforms (auto-configuration adaptable).
• Align while stationary or on-the-move.
• Multiple accuracy configurations to meet different applications’ requirements.
• Supports NMEA 0183.
• Over 16,000 TALIN systems fielded on over 60 commercial and military platforms worldwide including sensor platforms, survey applications, mining equipment, towed and self-propelled weapons, and combat vehicles.

SYSTEM CHARACTERISTICS

Installation
Can be hard mounted in any orientation

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

Power Requirements
18–32 Vdc: <30 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 and PPS MPE-S or SPS Polaris Link GPS Receiver Optional/External: VMS

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

Weight
<16 pounds (<7kg)

Interfaces
Standard: 10/100 Ethernet Optional: RS-422/RS-232

Form Factor – (excluding flanges & connectors)
Approx. 5.6 H x 7.1 W x 10.3 L inches
Approx. 14 H x 18 W x 26 L cm

*Application and configuration dependent

<table>
<thead>
<tr>
<th>PERFORMANCE LEVEL</th>
<th>eTALIN II 2000</th>
<th>eTALIN II 3000</th>
<th>eTALIN II 4000</th>
<th>eTALIN II 5000</th>
<th>eTALIN II 6000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Position</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INU only</td>
<td>35 m</td>
<td>25 m</td>
<td>18 m</td>
<td>12 m</td>
<td>6 m</td>
</tr>
<tr>
<td>INU/VMS</td>
<td>35 m</td>
<td>25 m</td>
<td>18 m</td>
<td>12 m</td>
<td>10 m</td>
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<tr>
<td>INU/VMS/GPS PPS</td>
<td>&lt;10 m CEP</td>
<td>&lt;10 m CEP</td>
<td>&lt;10 m CEP</td>
<td>&lt;10 m CEP</td>
<td>&lt;10 m CEP</td>
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<tr>
<td>INU/VMS/GPS SPS</td>
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<td>&lt;60 m CEP</td>
<td>&lt;60 m CEP</td>
<td>&lt;60 m CEP</td>
<td>&lt;60 m CEP</td>
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<tr>
<td>Heading Pointing Accuracy</td>
<td></td>
<td></td>
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<tr>
<td>Specified Accuracy RMS (mils, ±65° Lat)</td>
<td>&lt;4.0</td>
<td>&lt;2.0</td>
<td>&lt;1.0</td>
<td>&lt;0.70</td>
<td>&lt;0.50</td>
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<tr>
<td>Sec Lat (mils)</td>
<td>&lt;1.69</td>
<td>&lt;0.85</td>
<td>&lt;0.42</td>
<td>&lt;0.3</td>
<td>&lt;0.21</td>
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<tr>
<td>Pitch/Roll Accuracy</td>
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<td></td>
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<td></td>
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<tr>
<td>RMS (mils)</td>
<td>&lt;1.00</td>
<td>&lt;1.00</td>
<td>&lt;0.50</td>
<td>&lt;0.35</td>
<td>&lt;0.25</td>
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<tr>
<td>Maximum Alignment Time</td>
<td></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>
<td>&lt;20.0 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;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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</tbody>
</table>

For more information
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THE FUTURE IS WHAT WE MAKE IT

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