HIT YOUR TARGET IN ANY ENVIRONMENT
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
• Available in different configurations to support higher shock and extreme artillery requirements

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: TALIN/gTALIN: 1553A & B/RS-422/RS-232 serial host interface
eTALIN: Ethernet
• Optional: Additional RS-422/RS-232 data interface, turret encoder, laser range finders
• Form Factor - (excluding flanges & connectors)
  *Application and configuration dependent
• 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

PERFORMANCE

<table>
<thead>
<tr>
<th>POSITION ACCURACY</th>
<th>TALIN 2000</th>
<th>TALIN 3000</th>
<th>TALIN 4000</th>
<th>TALIN 5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal position error CEP with VMS aiding</td>
<td>3 m &lt; 2 km DT 0.20% DT* &gt; 2 km DT</td>
<td>2 m &lt; 2 km DT 0.19% DT* &gt; 2 km DT</td>
<td>2 m &lt; 2 km DT 0.18% DT* &gt; 2 km DT</td>
<td>2 m &lt; 2 km DT 0.15% DT* &gt; 2 km DT</td>
</tr>
<tr>
<td>Horizontal position error CEP with ZUPT/VMS aiding</td>
<td>9 m &lt; 5 km DT 0.10% DT* &gt; 5 km DT</td>
<td>6 m &lt; 5 km DT 0.07% DT* &gt; 5 km DT</td>
<td>5 m &lt; 5 km DT 0.06% DT* &gt; 5 km DT</td>
<td>5 m &lt; 5 km DT 0.05% DT* &gt; 5 km DT</td>
</tr>
<tr>
<td>Vertical position error PE with VMS aiding</td>
<td>10 M OR 0.1 % DT*</td>
<td>10 M OR 0.1 % DT*</td>
<td>10 M OR 0.1 % DT*</td>
<td>10 M OR 0.08 % DT*</td>
</tr>
</tbody>
</table>

HEAD/POINTING ACCURACY

| Specified accuracy (RMS) at ±65° latitude | <4 mils | <2 mil | <1 mil | <0.7 mil |
| Typical accuracy (RMS) at Indian (±40°) latitudes | <2.2 mils | <1.11 mils | <0.54 mils | <0.4 mils |
| SEC (LAT) | <1.69 mils | <0.85 mils | <0.42 mils | <0.3 mils |
| Pitch and roll accuracy (RMS) | <1.00 mils | <1.00 mils | <0.50 mils | <0.35 mils |

Values shown are per definitions in TALIN system specifications
* with Offset 2 meters † Based on empirical data

For more information
TALIN@honeywell.com or aerospace.honeywell.com/TALIN

Honeywell Aerospace
1944 E. Sky Harbor Circle
Street Address Line 2
Phoenix, AZ 85034
www.honeywell.com