HIT YOUR TARGET IN ANY ENVIRONMENT

Honeywell

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)
- 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

PERFORMANCE	TALIN 2000	TALIN 3000	TALIN 4000	TALIN 5000
POSITION ACCURACY				
Horizontal position error CEP with VMS aiding	3 m < 2 km DT 0.20% DT* > 2 km DT	2 m < 2 km DT 0.19% DT* > 2 km DT	2 m < 2 km DT 0.18% DT*> 2 km DT	2 m < 2 km DT 0.15% DT* † > 2 km DT
Horizontal position error CEP with ZUPT/VMS aiding	9 m < 5 km DT 0.10% DT* > 5 km DT	6 m < 5 km DT 0.07% DT* > 5 km DT	5 m < 5 km DT 0.06% DT* > 5 km DT	5 m < 5 km DT 0.05% DT* > 5 km DT
Vertical position error PE with VMS aiding	10 M OR 0.1 % DT*	10 M OR 0.1 % DT*	10 M OR 0.1 % DT*	10 M OR 0.06 % DT* †
HEADING/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 mil	<0.54 mil	<0.4 mil
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*

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THE FUTURE IS WHAT WE MAKE IT

Honeywell