

Honeywell

THE POWER OF **CONNECTED**

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



Performance	TALIN 2000	TALIN 3000	TALIN 4000	TALIN 5000	TALIN 6000
HORIZONTAL POS					
INU only	35m	25m	18m	12m	6m
INU/VMS	35m	25m	18m	12m	10m
INU/VMS/GPS PPS	<10m CEP	<10m CEP	<10m CEP	<10m CEP	<10m CEP
INU/VMS/GPS SPS	<60m CEP	<60m CEP	<60m CEP	<60m CEP	<60m CEP
HEADING/POINTING ACCURACY					
Specified Accuracy (RMS) at $\pm 65^\circ$ Latitude	<4.0 mils	<2.0 mils	<1.0 mils	<0.70 mils	<0.50 mils
sec(lat)	<1.69 mils	<0.85 mils	<0.42 mils	<0.3 mils	<0.21 mils
PITCH AND ROLL ACCURACY					
(RMS)	<1.00 mils	<1.00 mils	<0.50 mils	<0.35 mils	<0.25 mils
MAX ALIGNMENT TIME					
Maximum Static Alignment Time	<5.0 minutes	<5.0 minutes	<10.0 minutes	<15.0 minutes	<20.0 minutes
Maximum Dynamic Alignment Time	<12.0 minutes	<12.0 minutes	<12.0 minutes	<16.0 minutes	<16.0 minutes
Typical Alignment Time (28° Latitude)	<2.5 minutes	<3.0 minutes	<4.5 minutes	<5.5 minutes	<5.5 minutes

Values shown are per definitions in TALIN system specifications

Honeywell Aerospace

1944 1944 East Sky Harbor Circle

Phoenix, AZ 85034

aerospace.honeywell.com/talin

TALIN@honeywell.com

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