

Tactical Advanced Land Inertial Navigator (TALIN™)



CONTINUOUS POSITION, POINTING, AND
TARGETING SOLUTIONS

The continued evolution of the
proven, best-value navigation
system for the digital battlefield

Honeywell

TALIN™

Flexible, reliable, best-value INS/GPS navigator



System Features

- Flexible tactical configurations for combat vehicles, target acquisition, main battle tanks, infantry fighting vehicles, mortar systems, and artillery systems

- State-of-the-art plug“N”play sensors to facilitate technology upgrades & platform missionizations
- Instant on! On-the-move alignment
- Multiple accuracy configurations to meet different applications requirements
- In use on over 30 platforms, including Bradley FIST, Stryker, Bradley A3, Mortar Fire Control System, NLOS, IBCT FIST, IBCT Mortar, USMC CLAWS, Towed Artillery Digitization and Swiss FO

System Characteristics

Operating Ranges

- Attitude: Alignment and orientation in any direction
- Angular Rate: ± 200 deg/sec
- MTBF: >25,000 hours

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: 3-axis inertial sensors (internal), VMS, DAGR, PLGR

Software

- Modular – partitioned for cost-effective system missionization

Weight

- <16 pounds (<7kg)

Interfaces

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

Form Factor

- Approx. 5.1h x 7.0w x 8.5l inches (excluding flanges & connectors)

Installation

- Can be hard mounted in any orientation

*Application and configuration dependent

Performance	TALIN 2000	TALIN 3000	TALIN 4000	TALIN 5000
Horizontal Pos				
INU only	< 35m CEP	< 25m CEP	< 18m CEP	< 12m CEP
INU/VMS	0.5% of DT CEP	0.35% of DT CEP	0.25% of DT CEP	0.20% of DT CEP
INU/VMS/GPS PPS	< 10m CEP	< 10m CEP	< 10m CEP	< 10m CEP
INU/VMS/GPS SPS	< 60m CEP	< 60m CEP	< 60m CEP	< 60m CEP
Vertical Pos				
INU only	< 30m PE	< 16 m PE	< 10 m PE	< 7m PE
INU/VMS	0.25% of DT PE	0.20% of DT PE	0.15% of DT PE	0.10% of DT PE
INU/VMS/GPS PPS	< 10m PE	< 10m PE	< 10m PE	< 10m PE
INU/VMS/GPS SPS	< 75m PE	< 75m PE	< 75m PE	< 75m PE
Heading/Pointing Accuracy (RMS) *Sec (Lat)	< 4.0 mils or < 2.0 mils*	< 2.0 mils or < 1.0 mils*	< 1.0 mils or < 0.5 mils*	< 0.7 mils or < 0.35 mils*
Heading Stability (RMS)	< 0.4 mils/hr	< 0.3 mils/hr	< 0.2 mils/hr	< 0.15 mils/hr
Pitch & Roll Accuracy (RMS)	< 1.0 mils	< 1.0 mils	< 0.5 mils	< 0.35 mils
Max Alignment Time				
Static or Gyro Compass	< 5.0 minutes	< 5.0 minutes	< 10.0 minutes	< 15.0 minutes
Dynamic or "On the Move"	< 12.0 minutes	< 12.0 minutes	< 16.0 minutes	< 16.0 minutes

Values shown are per definitions in TALIN system specifications

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