



eTALIN II
INS/GNSS NAVIGATOR
WITH EMBEDDED
GPS RECEIVER

Honeywell

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.

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

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

For more information

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