
HIT
YOUR
TARGET
IN ANY
ENVIRONMENT
Honeywell

gTALIN

Flexible, reliable best-value INS/GPS navigator with embedded GPS receiver

SYSTEM FEATURES

- Honeywell's next generation ring laser gyro technology combined our best in class accelerometers and coupled with an embedded GPS receiver 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.

PERFORMANCE	GTALIN 2000	GTALIN 3000	GTALIN 4000	GTALIN 5000	GTALIN 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 ±65° 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	-

Values shown are per definitions in gTALIN system specifications

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: <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
- <15 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 - (excluding flanges & connectors)
- Approx. 5.4 H x 7.6 W x 10.3 L inches
- Approx. 14 H x 19 W x 26 L cm

Installation
- Can be hard mounted in any orientation

**Application and configuration dependent*

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THE FUTURE IS WHAT WE MAKE IT

Honeywell