

**Honeywell**

## **HONEYWELL TALIN™ 500**

Low-cost, high technology non GPS dependent navigation solution



## TALIN™ 500

Honeywell's Tactical Advanced Land Inertial Navigator (TALIN™) 500, the newest member of the TALIN family, provides a low-cost, high technology navigation solution for infantry fighting vehicles. Featuring full-inertial navigation, the TALIN™ 500 delivers advanced navigation performance that is more accurate than traditional magnetic systems, without any platform limitations. Utilizing a ringlaser- gyro-based system, the compact and simple to install unit enhances situational awareness by providing precise, multi-axis vehicle positioning, pointing and targeting without being GPS dependent. With multiple communication interfaces, the affordable TALIN™ 500 is proven in numerous battlefield environments worldwide to deliver reliable and accurate navigation performance.

### Proven Performance

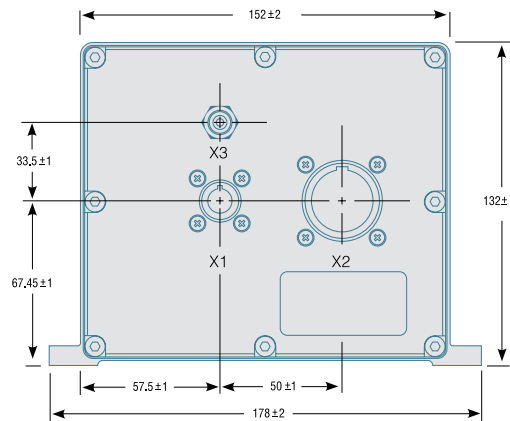
The TALIN™ 500 builds on the legacy that began when the product line was introduced in 1999. Since that time the TALIN™ products have been deployed in more than 20 countries for use on over 60 platforms. They have delivered accurate navigation for several heavy and medium combat vehicles, including the Bradley fighting vehicle and M1A1 tank. In addition, the TALIN's advanced technology provides motion sensing solutions for artillery, mortar fire control systems, air defense systems and high-accuracy radar systems.

### Find Out More

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### Why Honeywell?

- Flexible tactical configurations for navigation, stabilization and target acquisition on a wide variety of military vehicles
- State-of-the-art Plug 'n' Play sensors facilitate technology upgrades and platform missionizations
- Full 3 axis inertial navigation
- Flexible integration options – mounts in any orientation
- No magnetic sensors required
- TALIN™ 500, a cost effective navigation and stabilization solution for low and medium weight tracked and wheeled vehicles.

HORIZONTAL POSITION ACCURACY	INU/VMS	1% of DT CEP
	INU/VMS/GPS	<10m CEP with good satellite visibility
VERTICAL POSITION ACCURACY	INU/VMS	0.6% of DT PE
	INU/VMS/GPS	<10m PE with good satellite visibility
ATTITUDE ACCURACY	Heading/pointing	<7 mils RMS with GPS aiding or two position alignment
	Pitch/roll	<3 mils RMS
ALIGNMENT TIME		<10 minutes
OPERATING RANGES	Attitude	Alignment and orientation in any direction
	Angular Rate	<200 deg/sec
	MTBF	>10000 hours
POWER REQUIREMENTS	9-36 VDC	<30 watts
THERMAL OPERATING RANGE	No cooling required	-46°C to +71°C
PROCESSOR		Embedded Power PC
NAVIGATION SENSORS	Standard	3 axis inertial sensors (internal), VMS, PLGR
	Optional	GPS w/NMEA I/F (external or embedded), magnetic compass
SOFTWARE	Algorithm	Kalman filter for robust sensor error compensation
	Architecture	Partitioned for cost effective missionization, modular Ada
Interfaces	Standard	RS-422/RS-232 serial host interface, Ethernet UDP, PLGR, VMS
	Optional	Additional RS-422/RS-232 data interface, CAN-Bus, GPS antenna
UPDATE RATES	Position	10Hz
	Attitude	100Hz
FORM FACTOR		225 x 152 x 132mm (excluding mounting flanges and connectors)
WEIGHT *		<5kg
INSTALLATION		Can be hard mounted in any orientation

\* application and configuration dependent