



CONTINUOUS POSITION, POINTING,  
AND TARGETING SOLUTIONS

**Optimizing for the future: Smaller and lighter,  
with embedded GPS & Ethernet interface**

# eTALIN

## 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
- Instant on! On-the-move alignment
- Multiple accuracy configurations to meet different application requirements
- Expansion slot to facilitate technology upgrades & platform missionizations
- Uses Honeywell's proven Digital Laser Gyro (DLG) and Accelerometers

### System Characteristics

#### Operating Ranges

- Attitude: Alignment and orientation in any direction
- Angular Rate: High speed attitude data

#### Power Requirements

- 18-36 Vdc: <30 watts\*

#### Thermal Operating Range

- No cooling required: -54°C to 71°C (30 minutes at 95°C)

#### Navigation Sensors

- 3-axis inertial sensors (internal), VMS, DAGR, PLGR, embedded SAASM GPS

#### Software

- Modular – partitioned for cost-effective system missionization

#### Weight

- <12 pounds (<5.4 kg)

#### Interfaces

- 1000 BaseT, Ethernet PDI, External GPS, VMS
- GPS RS-422 GPS-ICD-153C, HAVEQUICK with 1 or 10PPS

#### Form Factor

- Approx. 5.0h x 7.6w x 8.6l inches (excluding flanges and connectors)

\*Application and configuration dependent

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

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