



Miniature Integrated Land
Navigation System

Precision Aiming and Navigation Capabilities

Utilizing proven sensor technology, Kearfott's Miniature Integrated Land Navigation System (MILNAV) product family provides accurate aiming and navigation capabilities.

The MILNAV incorporates proven sensor technology enabling precise performance in battlefield environments.

The modular architecture of the MILNAV provides maximum flexibility, offering selectable performance and future expansion capabilities.

Features & Benefits

- ✓ High Performance During Battlefield Shock & Vibration
- ✓ Flexible Installation
- ✓ Scalable Performance
- ✓ Configurable for Platform Needs
- ✓ Complete Systems or Kit Solutions Available

MILNAV Unit Product Specifications

<i>System Characteristics</i>	<i>MILNAV-16</i>	<i>MILNAV-24</i>	<i>MILNAV Kit-16</i>	<i>MILNAV Kit-24</i>
Size	540 in ³ (8,849 cm ³)	540 in ³ (8,849 cm ³)	58 in ³ (950 cm ³)	128 in ³ (2,098 cm ³)
Weight	< 16 lbs (7.26 kg)	< 20 lbs (9.07 kg)	3 lbs (1.36 kg)	8.5 lbs (3.86 kg)
Power	< 30 W	< 30 W	< 30 W	< 30 W
<i>Operational Ranges</i>	<i>MILNAV-16</i>	<i>MILNAV-24</i>	<i>MILNAV Kit-16</i>	<i>MILNAV Kit-24</i>
Acceleration	> 30 g	> 30 g	> 30 g	> 30 g
Attitude (Roll, Pitch, Azimuth)	Unlimited	Unlimited	Unlimited	Unlimited
Attitude Acceleration	> 10,000°/s ²	> 10,000°/s ²	> 10,000°/s ²	> 10,000°/s ²
Temperature	-46° to 60°C (-51° to 140°F)	-46° to 60°C (-51° to 140°F)	-46° to 60°C (-51° to 140°F)	-46° to 60°C (-51° to 140°F)
<i>Input/Output</i>				
Power Input	28 VDC	28 VDC	+15 V, -15 V, +5 V	+15 V, -15 V, +5 V
Interface	RS-422, RS-232, MIL-STD-1553	RS-422, RS-232, MIL-STD-1553	RS-422, RS-232	RS-422, RS-232
<i>Performance Characteristics</i>	<i>MILNAV-16</i>	<i>MILNAV-24</i>	<i>MILNAV Kit-16</i>	<i>MILNAV Kit-24</i>
GPS/INS Position Accuracy (CEP)	10 m	10 m	10 m	10 m
INS/VMS Position Accuracy (CEP)	< 0.55 % DT	< 0.25 % DT	< 0.55 % DT	< 0.25 % DT
GPS/INS Altitude (RMS)	10 m	10 m	10 m	10 m
INS/VMS Altitude (RMS)	< 0.15 % DT	< 0.067 % DT	< 0.15 % DT	< 0.067 % DT
Heading Accuracy (RMS)	< 5 mils	< 1 mils	< 5 mils	< 1 mils
Pitch-and-Roll Accuracy (RMS)	0.5 mils	0.5 mils	0.5 mils	0.5 mils