

# Inertial Navigation Systems Skyline 100 INS



## High-Accuracy Air Navigation System

Kearfott's Skyline 100 Air Inertial Navigation System (INS) employs the latest closed-loop Fiber Optic Gyro technology, providing fast, high-precision, autonomous navigation.

The Skyline 100 INS system is ITAR free, delivers attitude and navigation accuracy in GNSS-denied environments, and meets military standards MIL-STD 810, MIL-STD 461, and MIL-STD 704. The Skyline INS Family also has very high MTBF and requires no periodic maintenance.

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### Features & Benefits

- ✓ High Performance in the GPS-Denied Battlefield
- ✓ Maintenance Free
- ✓ Compact & Lightweight
- ✓ Cost-Effective Solution for Air Platforms
- ✓ Fast & Autonomous Navigation
- ✓ ITAR Free

# Skyline 100 INS Product Specifications

<i>System Characteristics</i>	
Size	160 mm H x 170 mm W x 296 mm D (6.30 in H x 6.69 in W x 11.65 in D)
Weight	18 lbs (8.2 kg)
Power Requirements	28 VDC (18-36 VDC) 30 W
<i>Operational Ranges</i>	
Temperature	-40° to 160°F (-40° to 71°C)
Environmental Standards	MIL-STD-810, MIL-STD-461
<i>Input/Output</i> Interface	RS-422, MIL-STD-1553B, Ethernet
<i>Performance Characteristics</i>	<i>Skyline 100</i>
Heading (RMS) Hybrid/Inertial	0.05°/ 0.08°
Roll/Pitch (RMS)	0.03°/ 0.05°
Position Hybrid/Inertial	10m/0.8 nm/hr
Alignment Time	5 min
Aiding Sources	Air Speed, Magnetometer, External GPS

*Available in 0.8-2.0 nm/hr classes of performance.*