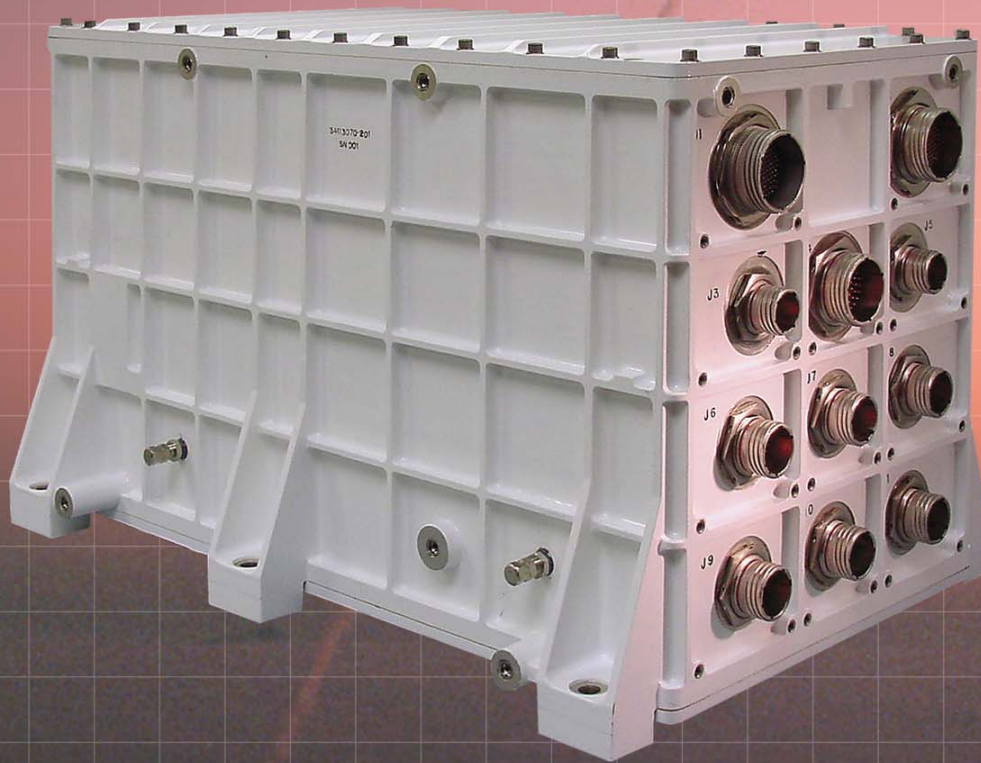


Fault Tolerant Inertial Navigation Unit



**Next Generation High Accuracy
Navigation System**

Honeywell

Fault Tolerant Inertial Navigation Unit (FTINU)

This next generation high-accuracy launch vehicle inertial navigation system provides robust fault tolerance in all functional areas.

The design incorporates advances in component technology and onboard computing to allow rapid, high confidence fault detection and isolation without compromising mission accuracy.

The FTINU consists of two principle functional subsections in a single box: a strapped-down inertial measurement system (IMS), and a flight control section.

The design process for the FTINU emphasizes the importance of providing single fault tolerance in all functions. Extreme care is taken to ensure the internal redundancy is never compromised or its performance degraded.

Features

- Primary integrated avionics component for launch vehicle guidance, navigation, and control subsystems
- Dual vehicle flight computers
- Improved performance, reduced cycle time and lower cost

Find out more

For more information regarding the FTINU, contact us at:
<http://www.honeywell.com/space>

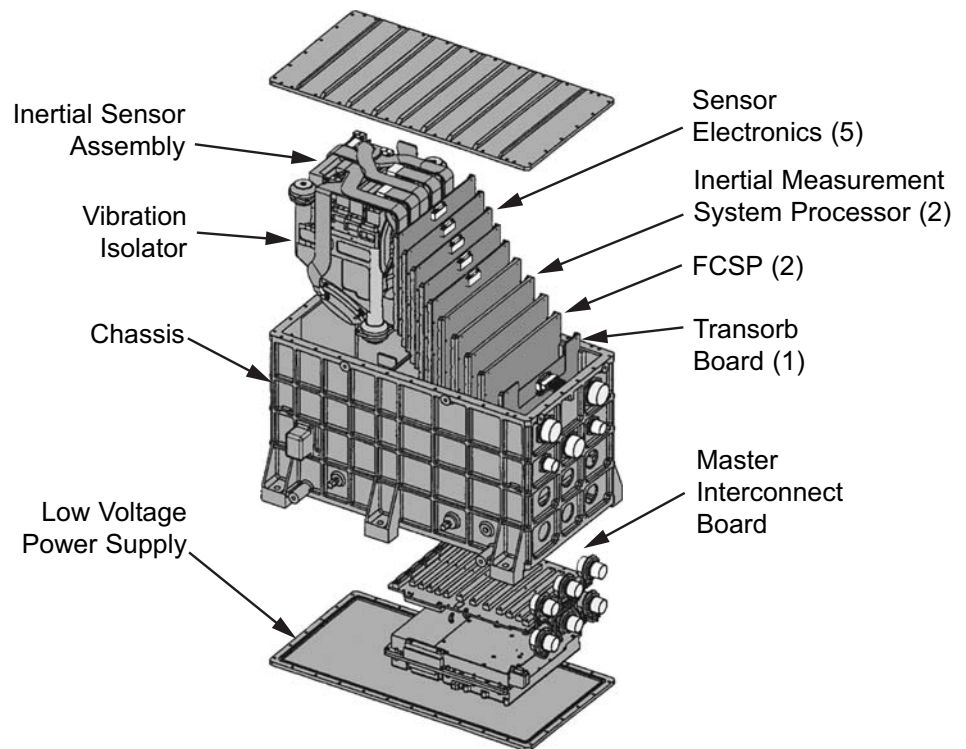
Honeywell

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- Robust fault tolerance in all functional areas
- Common navigation unit for DoD, NASA, and commercial payload applications
- Five axis strap-down system containing accelerometers and ring laser gyros
- Radiation hardened, MIL-STD-1750A compliant processors
- Test requirements compliant with MIL-STD-1540B
- Utilizes proven high-reliability parts
- Hermetically sealed
- Self-checking pair processor architecture
 - No extra software
 - Transparent to user
- Multiple 1553 interfaces
- Processor: GVSC 1750A 3 MIPS
 - Two IMS processors with embedded sensor compensation and fault handling software
 - Two Flight Control Subsystem Processors (FCSP) dedicated to prime contractor software
- Accelerometers: 5 Honeywell QA3000s
- Gyros: 5 Honeywell GG1320 RLGs

Form Factor

- Size: 19.85 inches x 11.55 inches x 12.4 inches (2,843 cubic inches)
- Weight: 82 lb
- Power: 175W



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