

MINIATURE INERTIAL MEASUREMENT UNIT

Proven performer for satellite and deep-space-probe applications.



With more than 297 Miniature Inertial Measurement Units (MIMUs) successfully launched and 563 delivered with more than 1,000,000 hours of on-orbit operation, the MIMU has quickly become the inertial measurement system of choice for commercial and military satellite and space exploration programs.

FEATURES

- 3 Axis Angular Measurement using proven GG1320 RLG
- Enhanced Built-in Test
- RS422 and MIL-STD-1553B
- Stimulus Ground Test Function
- Software Upload
- 28-100 Vdc Primary Power
- In-rush and Current Limiting
- On/Off Command

MAIN BUDGETS

Size	< 233.7mm (D) X 169.9 mm (H)
Weight	< 4.7 kg (4.6 kg typical)
Power	< 32.0 Watts (25 W typical)
Reliability	< 2200 FIT (30°C)

PERFORMANCE (TYPICAL)

Range	± 375 deg/sec
Bias (1s)	<0.02 deg/hr nominal per year
ARW (1s)	< 0.005 deg/rt-hr
Scale Factor (1s)	< 1 ppm per year
IA Alignment (1s)	< 83.3 micro-rad per year

ENVIRONMENTS

-30°C to 65°C (operating)
Space Vacuum
EMI per MIL-STD-461c
Acceleration 25g
Random Vibration 19.7 grms
Pyrotechnic Shock 40,000g
Radiation Hardened
- 100 Krad Total Dose
- SEU Tolerant
- Latchup Immun

AVAILABLE OPTIONS

Velocity Channel



Find out more

For more information regarding the MIMU, contact us at: aerospace.honeywell.com

Honeywell Aerospace
1944 East Sky Harbor Circle
Phoenix, AZ 85034
aerospace.honeywell.com

N61-1613-000-0001 03/21
© 2021 Honeywell International Inc.

THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell