FIBERNETICS

TRITON SERIES IMU

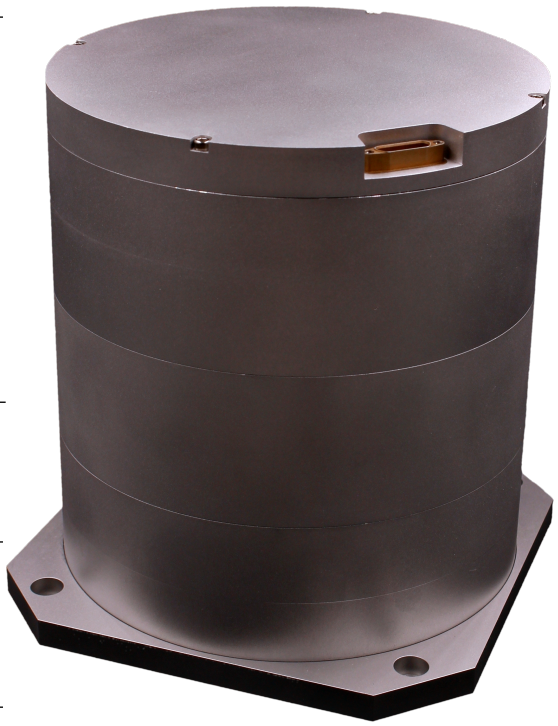
The TRITON SERIES IMU is an inertial measurement unit based on fiber optic gyroscope (FOG) and quartz flexture accelerometer (Q-Flex) technology.

- Excellent reliability & performance
- High performance-to-volume ratio
- Customer-determined packaging, connectors, and I/O protocols considered
- Long system lifetime
- No moving parts, no vibration
- Ease of use and installation
- Environmental robustness

TECHNICAL SPECIFICATIONS

PERFORMANCE

Fiber optic gyroscope	
Bias stability[1]	< 0.005 deg/hr
Random walk[1]	< 0.0003 deg/√ hr
Scale factor stability[1]	~ 10 ppm
Quartz flexure accelerometer	
Bias stability[1]	< 25 µg
Scale factor stability[1]	< 100 ppm



THERMAL OPERATING RANGE

Operating / storage temperature	-20 to +60 °C / -40 to +85 °C

ELECTRICAL CHARACTERISTICS

Voltage	18 to 35 Vdc input
Power	< 14 Watts

PHYSICAL CHARACTERISTICS

Dimensions[2]	ø6.27" x 7.00" (ø159 mm x 178 mm)
Weight (mass)	9 lb (4.1 kg)

INTERFACES

Serial RS422 - Honeywell protocol (1 MBaud asynchrononous) - SDLC also available
Serial RS232 - User-defined protocol

[1] RMS Value [2] Custom packaging and mounting available

WWW.FIBERGYRO.COM
US manufacturer of FOG-based inertial systems
For additional information, please contact ralphbergh@fibergyro.com