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

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

**TECHNICAL SPECIFICATIONS**

**PERFORMANCE**

- Fiber optic gyroscope
  - Bias Stability\(^1\) \text{ < 0.01 deg/hr}
  - Random Walk\(^1\) \text{ < 0.0005 deg/√hr}
  - Scale Factor Stability\(^1\) \text{ ~10 ppm}
- Quartz flexure accelerometer
  - Bias Stability\(^1\) \text{ between } 2 < 40μg \text{ and } < 1,000μg
  - Scale Factor Stability\(^1\) \text{ between } 2 < 80ppm \text{ and } < 1,000ppm

**OPERATING RANGE / ENVIRONMENT**

- Operating / storage temperature \text{-20°C to +60°C / -40°C to +85°C}
- Accelerometer dynamic range \text{between } \pm 60 g \text{ and } \pm 25 g
- FOG dynamic range \text{±750 deg/s}

**PHYSICAL CHARACTERISTICS**

- Dimensions\(^3\) \text{ Ø4.74” x 7.40” (Ø120mm x 188mm)}
- Weight (mass) \text{7.0 lbs (3.2 kg)}

**INTERFACES**

- Serial RS422 and/or RS232 - User defined (default asynchronous 200Hz)
- Ethernet\(^4\)

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[1] RMS Value
[2] A variety of quartz flexure accelerometers are available.
[4] All input/output serial ports are available and can be duplicated on Ethernet port.

WWW.FIBERGYRO.COM
US manufacturer of FOG-based inertial systems
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