FIBERNETICS

# STRATEGIC-GRADE 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] | < 0.001 deg/hr |
| Random walk[1] | < 50 µdeg/√ 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] | ø10.7" x 11.9" (ø272 mm x 302 mm) |
| Weight (mass) | 44 lb (20 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**
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