LandMark[™] 10 IMU



- Low Cost & Rugged IMU
- Vertical Gyro Option Available Pitch & Roll Angles ±0.25°
- Low Gyro Noise <0.014°/sec/√Hz 1σ
- Low Accel Noise <0.07mg/√Hz 1σ
- In Run Gyro Bias 25° /hour 1σ
- Fully Temperature Compensated Bias and Scale Factor
- Compensated Misalignment 1mrad and g-Sensitivity <0.03°/sec/g 1o
- Low Power < 440mW watt typical
- Low Voltage +3.1 to +5.5V (single sided)
- Light Weight <105 grams
- Small Size < 72cm³/4.4in³
- RS485 Output to 500 Hz (user selectable)
- Bandwidth Filtering Capability
- External Sync Input (1 kHz or 1pps)
- Internal Vibration Isolation
- Precision Alignment
- 3 Internal Temperature Sensors
- Self Test
- Shock Resistant

Low Noise & Excellent Bias Rugged Economy Class IMU

Export Classification: Commerce ECCN7A994

QMS AS9100 Rev B & ISO 9001:2008 Cert# FM 509639



The economy class LandMark™ 10 IMU is a substantially improved upgrade employing our latest low noise gyro technology for improved bias and with improved environmental sealing and MIL-SPEC connector. It provides internally temperature compensated RS485 output of delta velocity and delta

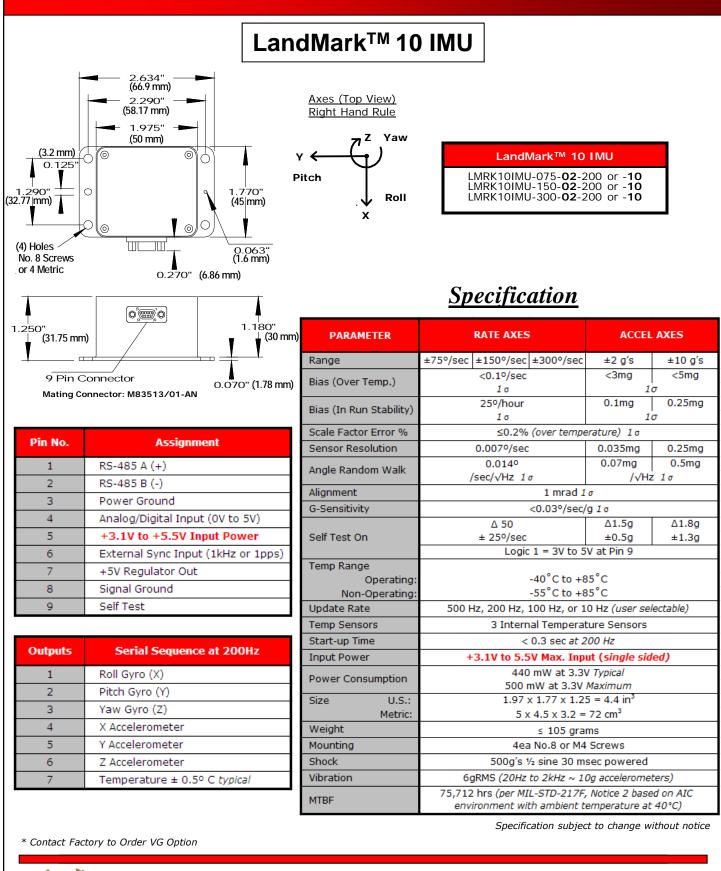
theta. As an option the IMU is available as a 'Vertical Gyro' with pitch and roll angle outputs. The LandMark[™] 10 IMU is ideal for applications requiring **low cost**, ultra low power consumption, rugged packaging, small size, light weight and no inherent wear out modes for long life. The signature feature of the



IMU is the performance, which is optimized with **fully temperature compensated bias and scale factor**, **compensated misalignment and g-sensitivity**. The unit is highly durable and employs an FEA designed internal vibration isolator that can withstand environmental vibration and shock typically associated with commercial aircraft requirements. LandMark[™] IMU's include built-in firmware to accept external velocity as well as an external sync input 1 kHz (or 1pps indication). This IMU is well suited for low cost navigation, platform and antenna stabilization, general aviation as well as laboratory use. The unit is ideal where low gyro noise, excellent modeled performance coupled with small size, low power, light weight and low cost are desired for MEMS IMU applications.



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