








LandMark™005 IMU

High Speed MEMS IMU



The LandMark™005 is Gladiator Technologies' high-speed, six-axis MEMS IMU. Equipped with low noise sensors, VELOX™ processing and user configurable firmware, the LandMark™005 comes factory calibrated and is ideal for stabilization and precision measurement applications.



-  Low Noise: $0.0028^\circ /s/\sqrt{Hz}$
-  Excellent Bias Stability: $5^\circ /h$
-  VELOX™ High Speed Processing
-  Factory Calibrated: $-40^\circ C$ to $85^\circ C$
-  NON-ITAR

Low Noise. High Performance.



LandMark™005 IMU

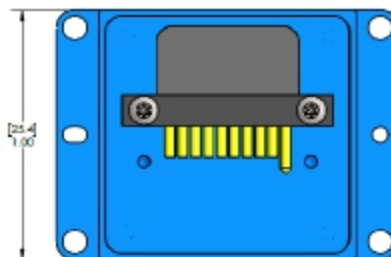
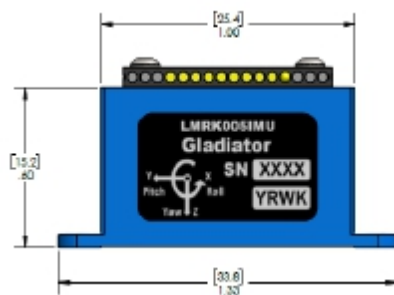
Performance		
Parameter	Gyro	Accel
Range	$\pm 490^\circ /s$	$\pm 15g$
ARW/VRW	$0.0028^\circ /s/\sqrt{Hz}$	$0.075mg/\sqrt{Hz}$
BiasIn-Run	$5^\circ /h$	$0.045mg$
BiasOverTemp.	$<0.1^\circ /s$	$<1mg$
Resolution	$0.015^\circ /s$	$0.49mg$
GSensitivity	$0.001^\circ /s/g$	$1mg/g^2$
ScaleFactorError	$\leq 0.03\%$ (overtemperature)	
Alignment	$<0.5mrad$	

Environment	
Shock	$600g^{1/2}$ sine 1ms powered on
Vibration	$5.74g_{RMS}$ (20Hz to 3kHz)
OperatingTemp	$-50^\circ C$ to $+85^\circ C$
Non-OperatingTemp	$-55^\circ C$ to $+85^\circ C$

Interface — with VELOX™ Processing	
UpdateRate	Upto 10kHz (User Selectable)
ExternalSync	Upto 10kHz (User Selectable)
StartUpTime	$\leq 0.15s$
DataFormat	16/24/32-Bit
DataInterface	RS-422/RS-485
Bandwidth	350Hz
Software	Development Kit Available

Electrical	
InputVoltage	+3.8V to +5.5V Max. Input (single sided)
PowerConsumption	200mW Typical / 270mW Maximum

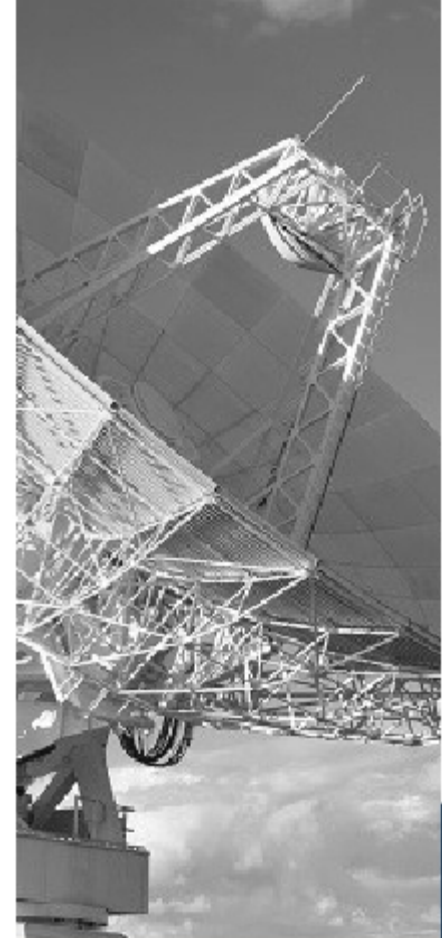
Mechanical	
Mass	18grams
Size	33 Metric: $2.54 \times 2.54 \times 1.52 = 9.81cm$ US: $1.0 \times 1.0 \times 0.6 = 0.6in$



www.gladiatortechnologies.com/landmark005

All performance parameters 1σ
Specification subject to change without notice

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