



LandMark™ 60LX IMU

High Performance MEMS IMU

The LandMark™ 60LX IMU is our highest performing six-axis MEMS IMU. Equipped with ultra low noise accelerometers, low noise gyros, VELOX™ processing, and user configurable firmware, the LandMark™ 60LX IMU is an excellent choice for stabilization, navigation, and automotive testing (CAN bus 2.0B interface).



Low Noise: 0.028 mg/√Hz



Excellent Bias Stability: 4°/h



VELOX™ High Speed Processing



Factory Calibrated: -50°C to 85°C



NON-ITAR

Low Noise. High Performance.

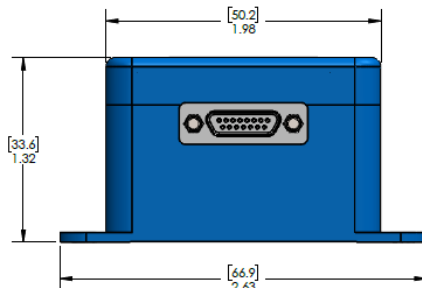
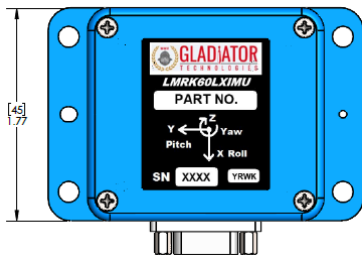


GLADIATOR

TECHNOLOGIES

LandMark™ 60LX IMU

Performance		
Parameter	Gyro	Accel
Range	±490°/s	±15 g
ARW / VRW	0.0016°/s/√Hz	0.028 mg/√Hz
Bias In-Run	4°/h	10 µg
Bias Over Temp.	90°/h	0.5 mg
Resolution	0.0012°/s	< 0.0018 mg
G Sensitivity	< 0.001°/s/g	0.25 mg/g ²
Scale Factor Error	≤ 500 ppm (over temperature)	≤ 100 ppm (over temperature)
Alignment	< 0.5 mrad	
Environment		
Shock	500 g ½ sine 1 ms powered on	
Vibration	8 g _{RMS} (50 Hz to 2 kHz)	
Operating Temp	-50°C to +85°C	
Non-Operating Temp	-55°C to +85°C	
Interface — with VELOX™ Processing		
Output Data Rate	Up to 2.5 kHz (User Selectable)	
External Sync	Up to 4 kHz (User Selectable)	
Start Up Time	< 0.3 s	
Data Format	16/24/32 - Bit	
Data Interface	RS-422/RS-485 3 Mbaud & CAN 2.0B at 1 MHz	
Bandwidth	250 Hz	
Software	Development Kit Available	
Electrical		
Input Voltage	+7 V to +36 V Max. Input (single sided)	
Power Consumption	550 mW Typical / 600 mW Maximum	
Mechanical		
Mass	≤115 grams	
Size	Metric: 5.0 x 4.5 x 3.4 = 76 cm ³ US: 1.98 x 1.77 x 1.33 = 4.66 in ³	



www.gladiatortechnologies.com/landmark60LX

All performance parameters 1σ
Specification subject to change without notice
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