



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: 28 $\mu\text{g}/\text{VHz}$



Excellent Bias Stability: 4°/h



VELOX™ High Speed Processing



Factory Calibrated: -40°C to 85°C



NON-ITAR

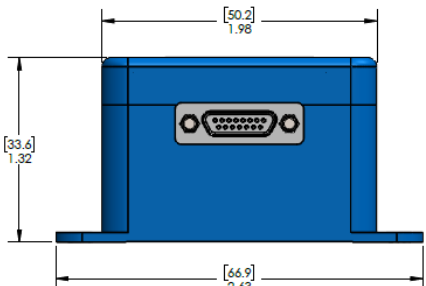
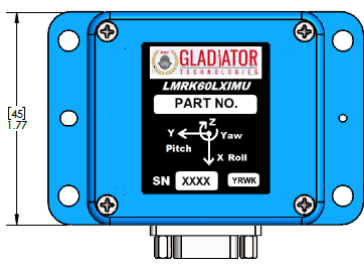
Low Noise. High Performance.



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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.	0.03°/s	0.5 mg
Resolution	0.0012°/s	< 0.0018 mg
G Sensitivity	0.001°/s/g	0.25 mg/g ²
Scale Factor Error	≤ 250 ppm (over temperature)	≤ 100 ppm (over temperature)
Alignment	< 0.5 mrad	
Environment		
Shock	600 g ½ sine 1 ms powered on	
Vibration	5.74 g _{RMS} (20 Hz to 3 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	125 grams	
Size	Metric: 5.0 x 4.5 x 3.4 = 76.5 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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RD 11 - BP20 - 78650 BEYNES
 Tel : +33 (0) 134 947 700
 info@alcyonelectronique.fr
 www.alcyonelectronique.fr



GLADIATOR
 TECHNOLOGIES

8020 Bracken Place SE
 Snoqualmie, WA 98065
 +1 425 396 0829
www.gladiatortechnologies.com
sales@gladiatortechnologies.com