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LandMark™65 IMU

High Dynamic MEMS IMU

The LandMark™65 IMU is Gladiator Technologies' High Dynamic, High Performance six-axis MEMS IMU. Equipped with low noise sensors, VELOX™ processing and user configurable firmware., this IMU is designed to perform in high dynamic environments up to 2000°/second, 40 g, high shock and high vibration.



Low Noise: 0.002°/s/√Hz



Excellent Bias Stability: 7°/h



VELOX™ High Speed Processing



Factory Calibrated: -40°C to 85°C



NON-ITAR

Low Noise. High Performance.



GLADIATOR
TECHNOLOGIES

LandMark™ 65 IMU

Performance

Parameter	Gyro	Accel
Range	±2000°/s	±40 g
ARW / VRW	0.002°/s/√Hz	0.035 mg/√Hz
Bias In-Run	7°/h	0.01 mg
Bias Over Temp.	< 0.03°/s	1 mg
Resolution	0.005°/s	0.0064 mg
G Sensitivity	0.003°/s/g	0.4 mg/g ²
Scale Factor Error	≤ 0.1% (over temperature)	
Alignment	< 0.5 mrad	

Environment

Shock	1000 g ½ sine 1 ms powered on
Vibration	15 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

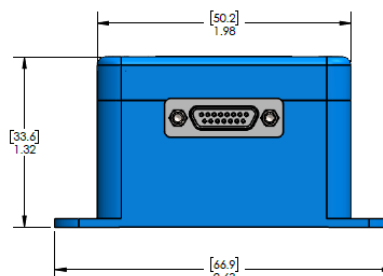
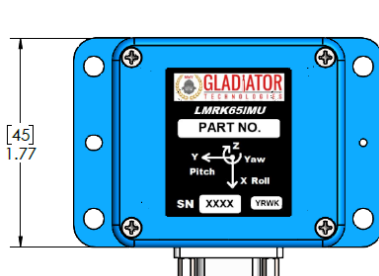
Update Rate	Up to 2.5 kHz (User Selectable)
External Sync	Up to 4 kHz (User Selectable)
Start Up Time	< 0.25 s
Data Format	16/24/32 - Bit
Data Interface	RS-422/RS-485 3 Mbaud & CAN 2.0B at 1 MHz
Bandwidth	250 Hz
Software	Development Kit Available

Electrical

Input Voltage	+7 V to +36 V Max. Input (single sided)
Power Consumption	500 mW Typical / 600 mW Maximum

Mechanical

Mass	≤ 115 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.gladiatortechologies.com/landmark65

All performance parameters 1σ
Specification subject to change without notice
Rev. 03.14.19



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