



# GLADIATOR

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TECHNOLOGIES

Low Noise. High Performance.  
Inertial Systems & Sensors

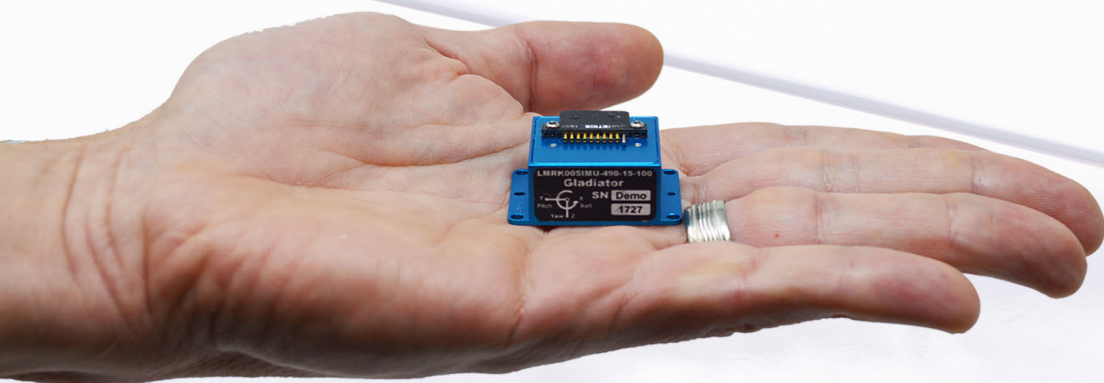
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# LOW NOISE. HIGH PERFORMANCE.

## Inertial Systems Featuring VELOX™ Processing Technology



## WHAT IS VELOX™?

VELOX™ processing technology employs advanced rapid sampling and signal processing techniques to output data at high speed with minimal phase lag. VELOX™ technology enables system designers to replace legacy analog systems with affordable, high speed digital inertial systems and sensors.

## APPLICATIONS



UNMANNED SYSTEMS



STABILIZATION



RAIL



NAVIGATION



MILITARY & DEFENSE



UTILITY



# INS/GPS

Our INS/GPS units combine Gladiator Technologies' VELOX™ high-speed MEMS sensor technology with a 72 channel GNSS receiver to provide high-accuracy position, velocity, and attitude.



LandMark™005 INS/GPS



LandMark™60 INS/GPS  
(with RTK)

	LandMark™005 INS/GPS	LandMark™60 INS/GPS
Heading (GPS)	±0.5°	±0.3°
Pitch/Roll Angles	±0.25°	±0.1°
Velocity Accuracy	0.1 m/s	0.05 m/s
Free Inertial (typical)	12 NMPH	8 NMPH
GPS Acquisition (cold)	27 seconds	29 seconds
GPS Acquisition (hot)	1 second	1 second
Inertial Update Rate	600 Hz	600 Hz

# IMUs, GYROS, ACCELS

Our MEMS inertial systems and sensors feature low noise outputs and high speed VELOX™ processing in compact packages. All products are factory calibrated and ready for integration out of the box.



	LandMark™60 LX IMU	LandMark™60 IMU	MRM60 IMU	LandMark™65 IMU	LandMark™007X IMU	LandMark™005 IMU	LandMark™01 IMU	G300D Gyro	G150Z Gyro	A40 Accel
Gyro Range (°/s)	±490	±490	±250	±2000	±2000	±490	±490	±490	±100	-
Gyro In-Run Bias (°/h)	4	5	3	7	10	5	10	5	1.2	-
Gyro ARW (°/s/√Hz)	0.0016	0.0016	0.0016	0.002	0.0035	0.0028	0.0035	0.0028	0.001	-
Accelerometer Range (g)	±15	±15	±6	±40	±200	±15	±15	-	-	±6
Accel In-Run Bias (mg)	0.01	0.03	0.025	0.01	1	0.045	0.055	-	-	0.045
Accel VRW (mg/√Hz)	0.028	0.04	0.04	0.035	5	0.075	0.09	-	-	0.035
Output (ext sync kHz)	4	6	analog	4	7	10	5	10	analog	analog

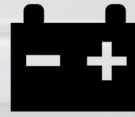
OUR TEAM IS HERE TO GUIDE YOU IN SELECTING THE BEST PRODUCT FOR YOUR APPLICATION

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Rugged. Our units are built to endure rough treatment; shock, temp, and vibration



SWAP-C: small, lightweight, low power and affordable



Tested and calibrated over the full temperature range -40°C to 85°C



VELOX™ processing technology outputs data at high speed with minimal phase lag



Ready to perform out of the box. No field calibration required



Low Noise and excellent Bias Stability



NON-ITAR



Get the most from your budget with High Performance systems at half the price of legacy products

# VALUE WITHOUT COMPROMISE



# GLADIATOR

TECHNOLOGIES

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