

Willburger System GmbH

Tel. +49 8841 3028

info@willburger.de

## Gladiator Technologies

Division of LKD Aerospace



High Performance Inertial MEMS  
Since 2005



Tel: 425.396.0829 • Fax: 425.396.1129

sales@gladiatortechnologies.com

Find Us On:



[www.GladiatorTechnologies.com](http://www.GladiatorTechnologies.com)

# MEMS Inertial product for your Application



- Bogie Monitoring
- Ride Comfort
- Track Telemetry
- Track Geolocation

- Guidance & Navigation
- Flight Control
- Flight Test / Avionics
- Antenna / Platform Stab.
- EO / IR Stabilization

- Motorsports Racing
- Test Track
- Motion Monitoring
- Brake Testing
- CANBUS Output

- Agriculture / Heavy Equipment
- Motion Monitoring
- Image Stabilization
- Instrumentation & Robotics

- Antenna / Platform Stab.
- E/O Imaging Stabilization
- Marine Motion Monitoring
- Marine Compass / AHRS

### HIGH PERFORMANCE PRODUCTS

- LandMark™ Inertial Systems IMU / VG / AHRS
- GPS-Aided Inertial Systems VG/GPS, GPS/AHRS, INS/GPS
- Gyros (Single / Bi / Tri-axis)
- Accelerometers
- MRM Analog IMU's



### TECHNICAL FEATURES

- Low Noise 0.0009°/Sec/√Hz
- Low Bias In-Run (1-2°/hr)
- High Bandwidth 200Hz
- G-Sensitivity & Axis Alignment Correction
- Up to 18Hz GPS Update Rate
- 72 Channel GPS / GLONASS / BeiDou
- RS422 / RS485 / CANBUS Messaging Protocol
- Full Environmental Conditioning
- Full Temperature Calibration



### QMS & CERTS

- Export Classification: Commerce ECCN7A994
- Quality AS9100C (ISO9001:2008)
- Cage Code 47L11
- DUNS #10-337-2009
- CCR Registered
- JCP Certified
- Lean Manufacturing & Six Sigma



# Inertial & GPS-Aided System Products

## LandMark™ Product Families and Models

Export Classification: Commerce ECCN7A994

Product Family	Digital Analog	Description	ARW Noise	In-Run Bias	Accel Noise	IMU	VG	AHRS	VG/GPS	GPS/AHRS	INS/GPS	
<b>NEW</b> LandMark™70 MRM70	Digital	Very Low Noise	0.038°/√hr ~ 0.0009°/sec/√Hz	1-2°/Hour	0.02	X	X			X	X	
	Analog					X						
	LandMark™60 MRM60	Digital	Low Noise	0.003°/sec/√Hz	3°/Hour	0.045	X	X			X	X
		Analog					X					
LandMark™01	Digital	Low Noise 1" Cube	0.003°/sec/√Hz	5°/Hour	0.09	X	X					
DIGS™100	Digital	Downhole Orientation Module	0.003°/sec/√Hz	5°/Hour	0.1			X				
<b>NEW</b> LandMark™50 MRM50	Digital	Very Low Noise	0.038°/√hr ~ 0.0009°/sec/√Hz	1-2°/Hour	0.02	X	X	X	X	X	X	
	Analog					X						
	LandMark™40 MRM40	Digital	Low Noise	0.002°/sec/√Hz	6°/Hour	0.035	X	X	X	X	X	X
		Analog					X					
	LandMark™21	Digital	Mid Performance 1" Cube	0.004°/sec/√Hz	8°/Hour	0.25	X	X				
	LandMark™20 MRM20	Digital	Mid Performance	0.01°/sec/√Hz	15°/Hour	0.05	X	X	X	X	X	
Analog		X										
LandMark™10 MRM10	Digital Analog	Economy Performance	0.012°/sec/√Hz	25°/Hour	0.07	X	X	X	X	X		

## Analog Gyros and Accelerometers

### Gladiator Technologies Gyro and Accelerometer Products

Export Classification: Commerce ECCN7A994

Product Family	Description	ARW Noise	Unmodeled In-Run Bias
<b>NEW</b> G200D	Triaxial Gyro - Digital	0.002°/sec/√Hz	4°/Hour
	Dual-Axis Gyro - Analog	0.002°/sec/√Hz	4°/Hour
	Single-Axis Gyro - Analog	0.001°/sec/√Hz	2°/Hour
G50Z	Single-Axis Gyro - Analog	0.005°/sec/√Hz	15°/Hour
A40	Single-Axis Accelerometer - Analog	0.065mg/√Hz	0.045mg

## GPS Integrated Receiver

### \*\*Used in LandMark™ GPS-Aided Systems

Channels	72 Channels	
GNSS Receiver	GPS L1C/A, GLONASS L10F, BeiDou B1, GALILEO E1B/C*	
SBAS	WAAS, EGNOS, QZSS	
Max Navigation GPS Update Rate	Up to 18Hz	
GPS Horizontal Position Accuracy	Autonomous 2.5m	SBAS 2.0m
Velocity Accuracy	0.05m/s	

Willburger System GmbH  
Auf der Schuchen 11  
D82418 Seehausen  
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Gladiator Technologies Division  
LKD Aerospace, Inc  
8020 Bracken Place SE  
Snoqualmie, WA 98065 USA  
Tel: 425.396.0829 Fax: 425.396.1129  
Email: sales@gladiatortechnologies.com  
Web: www.gladiatortechnologies.com