

Ihr Ansprechpartner in
Deutschland, Österreich
und der Schweiz

Willburger System GmbH
Auf der Schuchen 11
82418 Seehausen am
Staffelsee

GERMANY

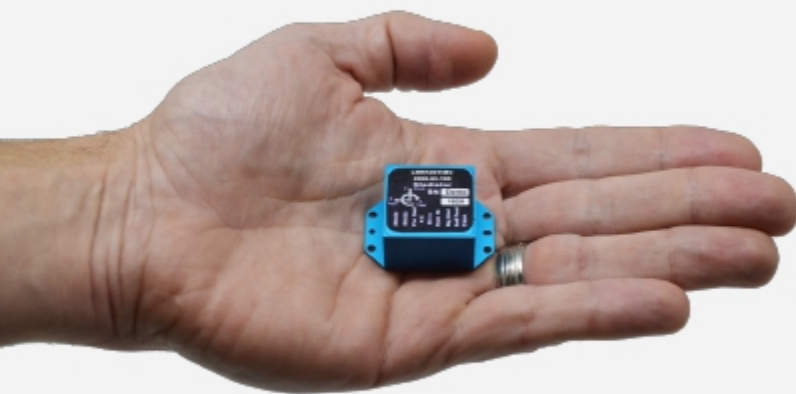
Tel.: +49 8841 3028
Email: info@willburger.de








LandMark™007 IMU

High Dynamic MEMS IMU

The LandMark™007 IMU is Gladiator Technologies', smallest, 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, 98g, high shock and high vibration.



-  Low Noise: 0.0035° /s/ $\sqrt{\text{Hz}}$
-  High Dynamic: 2000° /s & 98g
-  VELOX™ High Speed Processing
-  Factory Calibrated: -40° C to 85° C
-  NON-ITAR

Low Noise. High Performance.  **GLADIATOR**
TECHNOLOGIES

LandMark™007 IMU

Performance (available in any combination of gyro & accel ranges)

Parameter	Gyro		Accel	
Range	±490° /s	±2000° /s	±65g	±98g
ARW/VRW	0.0035° /s/√Hz	0.0035° /s/√Hz	6mg/√Hz	6mg/√Hz
BiasIn-Run	10° /h	10° /h	2mg	2mg
BiasOverTemp.	<0.1° /s	<0.1° /s	±20mg	±30mg
Resolution	0.015° /s	0.06° /s	2mg	3mg
GSensitivity/g²	0.001° /s/g	0.003° /s/g	0.4mg/g²	0.3mg/g²
ScaleFactorError	≤0.05%	≤0.1%	≤0.1%	≤0.1%
Alignment	<0.5mrad	<0.5mrad	4mrad	6mrad

Environment

Shock	1000g ¹ / ₂ sine 1ms powered on
Vibration	15grms(20Hz to 3kHz)
OperatingTemp	-50° C to +85° C
Non-OperatingTemp	-55° C to +85° C

Interface — with VELOX™ Processing

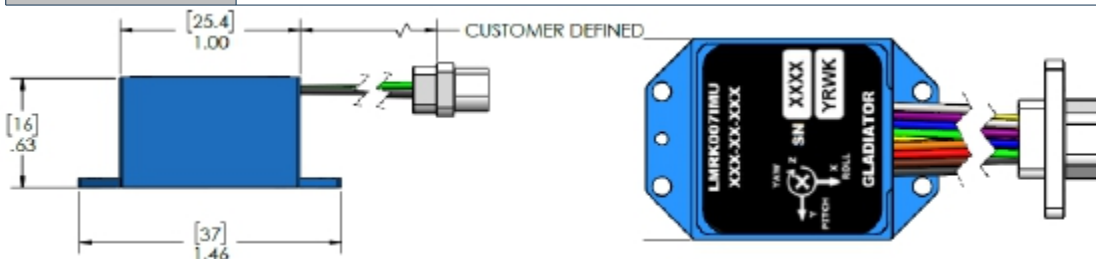
UpdateRate	Upto 5kHz (User Selectable)
ExternalSync	Upto 7kHz (User Selectable)
StartUpTime	<0.25s
DataFormat	16/24/32-Bit
DataInterface	RS-422/RS-485
Bandwidth	350Hz
Software	Development Kit Available

Electrical

InputVoltage	+3.8V to +5.5V Max. Input (single sided)
PowerConsumption	225mW Typical / 275mW Maximum

Mechanical

Mass	20grams ± 1
Size	Metric: 2.8x2.5x1.6 = 11.2cm US: 1.09x0.97x0.63 = 0.67in



Ihr Ansprechpartner in
Deutschland, Österreich
und der Schweiz

Willburger System GmbH
Auf der Schuchen 11
82418 Seehausen am
Staffelsee

GERMANY

Tel.: +49 8841 3028
Email: info@willburger.de



8020 Bracken Place SE
Snoqualmie, WA 98065
+1 425 396 0829

www.gladiatortechnologies.com
sales@gladiatortechnologies.com

www.gladiatortechnologies.com/landmark007

All performance parameters Iσ
Specification subject to change without notice

Rev. 03.27.19