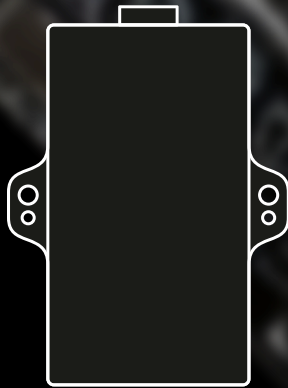


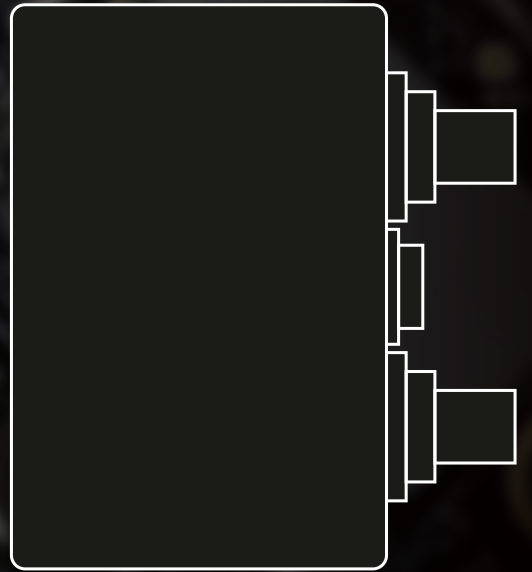
GLimu



OEM



Case



RTG

Applications



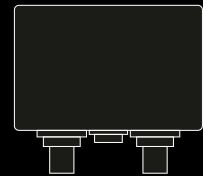
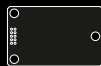
Specifications

General

Sensors	3-axis Accelerometer, 3-axis Gyroscope, 3-axis Magnetometer, Barometric Pressure, Temperature
Data outputs	Acceleration, Angular rate, Ambient pressure, High precision static inclination measurements algorithm

Inertial Measurement Unit (IMU) Sensor Outputs

	Accelerometer	Gyroscope
Full Scale Range	±16g	±2000°/sec
Nonlinearity	±0.1%	±0.1%
Resolution	18bit (0.000061g)	19 bit (0,003814°/sec)
Offset Temp Stability	±0.005 %/°C	±0.005 %/°C
Noise density	0,065 g/√Hz	0,0028 dps/√Hz
Static Angle measurement Resolution	0,0001°	
Static Angle measurement Precision	0,002°	
Adjustable bandwidth	42 Hz up to 4 KHz	
IMU filtering	GL Real time Filter, GL Internal Sensor Fusion, RAW Data	
Sampling rate	1 KHz up to 32 KHz	
IMU data output rate	1 Hz up to 242 KHz	



Operating Parameters

Power source	3 V – 30 V DC	3 V – 30 V DC	3 V – 48 V DC
Power consumption	5.5 W max, 0.4 W typ	5.5 W max, 0.4 W typ	5.5 W max, 0.4 W typ
Operating temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Communication	USB 2.x, CAN, UART	USB 2.x, CAN, UART	USB 2.x, CAN, UART

Mechanical Specifications

Version	GLimu OEM	GLimu Case	GLimu RTG
Dimensions L × W × H	38 × 24 × 6 mm	48 × 27 × 10 mm	75 × 50 × 32 mm
Weight	14 gr	25 gr	112 gr
Enclosure material	none	Aluminium	Aluminium
Regulatory compliance	CE ROHS UL	CE ROHS UL	CE ROHS UL
Mechanical shock limit	20000 g	20000 g	1000 g

Integration

Connectors	5×2 1,27 Pinheader (CAN, USB, UART, PPS)	Micro sub D 9P (CAN, USB, UART, PPS)	2 × M12 (CAN) 1 × M8 (USB, UART)
Software	GL IMU Studio	GL IMU Studio	GL IMU Studio

Errors and technical modification subject to change.

Contact us

office@general-laser.at

general-laser.at