



InvenSense

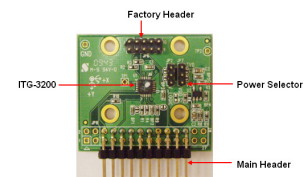
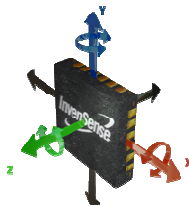
Founded in 2003, InvenSense is based in Sunnyvale, California, with test operations in Taiwan and sales and applications support offices in Taiwan, Korea, Japan and Dubai.

The InvenSense solid state gyroscopes have an extremely small form factor and offer a high level of integration, performance, reliability and cost effectiveness.



Their technology comprises of four proprietary components: the patented Nasiri-Fabrication process, the advanced MEMS gyroscope design, the mixed-signal circuitry that provides sensor signal processing and enables SensorFusion technology critical to the MotionProcessing platform, and the MotionProcessing library & MotionApplication software solutions.

	Part #	Full Scale Range (FSR)	Secondary Output (FSR)	Sensitivity	Sensitivity Secondary Output	Output	Operating Voltage Supply	Package Size
	UNITS:	(%/sec)	(%/sec)	(mV/°/sec)	(mV/°/sec)		(V)	(mm)
Single Axis (Z) MEMS Gyroscope	ISZ-500	±500	±110	2	9.1	Analog	3.0 ±10%	4x5x1.2
	ISZ-650	±2000	±440	0.5	2.27	Analog	3.0 ±10%	4x5x1.2
Dual Axis (X/Z) MEMS Gyroscope	IXZ-500	±500	±110	2	9.1	Analog	3.0 ±10%	4x5x1.2
	IXZ-650	±2000	±440	0.5	2.27	Analog	3.0 ±10%	4x5x1.2
Dual Axis (X/Y) MEMS Gyroscope	IDG-500	±500	±110	2	9.1	Analog	3.0 ±10%	4x5x1.2
	IDG-650	±2000	±440	0.5	2.7	Analog	3.0 ±10%	4x5x1.2
Triple Axis (X/Y/Z) MEMS Gyroscope	Part #	Full Scale Range	Sensitivity	Rate Noise	Output	Operating Voltage Supply	Package Size	
	UNITS:	(%/sec)	(LSB/°/sec)	(dps/°Hz)		(V)	(mm)	
	IMU-3000	±250	131	0.01	I ² C	2.1 to 3.6	4x4x0.9	
		±500	65.5					
±1000		32.8						
±2000	16.4							
ITG-3200	±2000	14.375	0.03	I ² C	2.1 to 3.6	4x4x0.9		



InvenSense

Six Axis MEMS Motion Processor - 3-Axis Gyroscope & 3-Axis Accelerometer	Part #	Full Scale Range	Sensitivity	Rate Noise	Output	Logic Supply Voltage	Operating Voltage Supply	Package Size
	UNITS:	(°/sec)	(LSB/°/sec)	(dps/°Hz)		(V)	(V +/-5%)	(mm)
MPU-6000		±250	131					
		±500	65.5	0.005	I ² C or SPI	VDD	2.5 to 3.6	4x4x0.9
		±1000	32.8					
		±2000	16.4					
MPU-6050		±250	131					
		±500	65.5	0.005	I ² C	1.8V±5% or VDD	2.5 to 3.6	4x4x0.9
		±1000	32.8					
		±2000	16.4					

InvenSense Advantages

- Smallest form factor at 4x4x0.9mm
- High sensitivity of 23mV/dps
- Integrated single-chip in-plane design with superior X/Y cross-axis alignment compared to solutions using two single-axis gyros
- Lowest phase delay with 140Hz low pass filter (LPF)
- Lowest noise of 0.014°/sec/√Hz
- Highest shock resistance at 10,000g
- Nasiri-Fabrication platform delivers inherent size, performance and cost advantages unattainable with competing fabrication processes

Broadband Technology 2000 Ltd Product Areas

<p>EMBEDDED ICs</p> <ul style="list-style-type: none"> • VoIP & Video DSPs • ADCs & DACs • Ethernet NPU & NPA • Mixed Signal ICs <p>SENSOR ICs</p> <ul style="list-style-type: none"> • Accelerometers, • Gyroscopes, • Magnetic Sensors <p>RF & MICROWAVE</p> <ul style="list-style-type: none"> • Attenuators, • Power AMPS • Antennas, • GPS Modules 	<h3>Your Solution Provider</h3> 	<p>POWER MANAGEMENT</p> <ul style="list-style-type: none"> • Battery Charge ICs • Hot Swap Controllers, • Power Supply Sequencers • Super capacitors <p>WIRELESS</p> <ul style="list-style-type: none"> • Telematic Platforms • GSM GPRS & 3G Modems • 3G Routers • 3G Dongles • Gateways • Tracking Units • WiMAX Modems & Controllers
---	--	--



Broadband Technology 2000 Limited
 Phone: +44 1189 324600 Fax: +44 1189 730571
 Email: sales@bt2000.co.uk Website: www.bt2000.co.uk

