

MSM-3 Motion Sensing Kit

MSM-3 Motion Sensing Kit includes

- MSM-3
- MSM-HUB-3
- MSM-LINK

The MSM-3 is the World's smallest 3D acceleration measurement module with USB connection for PC. The MSM-3 can be used to measure 3D linear and dynamic acceleration data and the static angular tilt/inclination data. The MSM-HUB-3 is also the world's smallest 3D acceleration module with 1-to-3 USB hub function. The MSM-HUB-3 includes the functions of MSM-3. Furthermore, it can also measure the temperature data in order to compensate temperature effect. Both MSM-3 and MSM-HUB-3 have been occupied our 3D self-calibration to resolve the misalignment problem. A powerful software, MSM-LINK handles real-time data monitoring, real-time signal display, real-time data capture, statistics analysis, signal processing and 3D virtual graphical display.

Fields of applications

- PC Peripherals and Handheld Devices
- Gaming Industry
- Robotics and Virtual Reality
- Sport Science (e.g. Pedometers)
- Automotive and Aerospace
- Machine Monitoring
- Safety Alarm and Anti-Theft
- HDD Protection and Event Recorder
- Navigation and E-Compass Tilt Compensation

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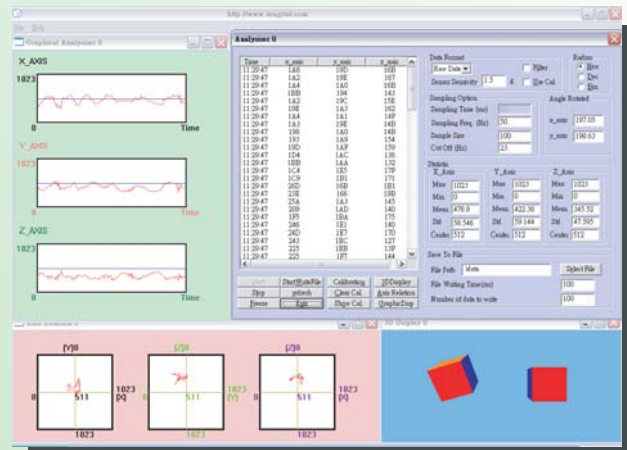
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MSM-3-HUB



MSM-3

MSM-LINK



Features

MSM-3 / MSM-HUB-3

- 3D acceleration measurement (Static and dynamic)
- Inclination and tilt measurement
- Tiny module with compact PCB design
- Sensor for temperature compensation
- USB interface



MSM-3

MSM-LINK

- Real-time data processing
- 3D self-calibration
- Data filtering
- 3D graphical display



MSM-3-HUB

Specification

	Unit	MSM-3	MSM-HUB-3
Hardware		- 1 Tri-axis accelerometer - 1 MCU with USB connection - Compact designed PCB	- 1 Tri-axis accelerometer - 1 MCU with USB HUB connection - 1 Temperature sensor - Compact designed PCB
Interface		- USB 1.1 compatible	- USB 1.1 compatible - 1-to-3 USB Hub - Support max 3 USB MSM-3
Operating Voltage	V	4.4 to 5.25	4.4 to 5.25
Supply Current	mA	5.0	34.4
Operating Temp.	°C	0 - 70	0 - 70
Sampling Rate	Hz	125	125
Outline Dimensions	mm	22 x 17 x 13	60 x 54 x 15
Weight	g	5	15

Maximum three MSM-3 can be connected to MSM-HUB-3 at the same time

