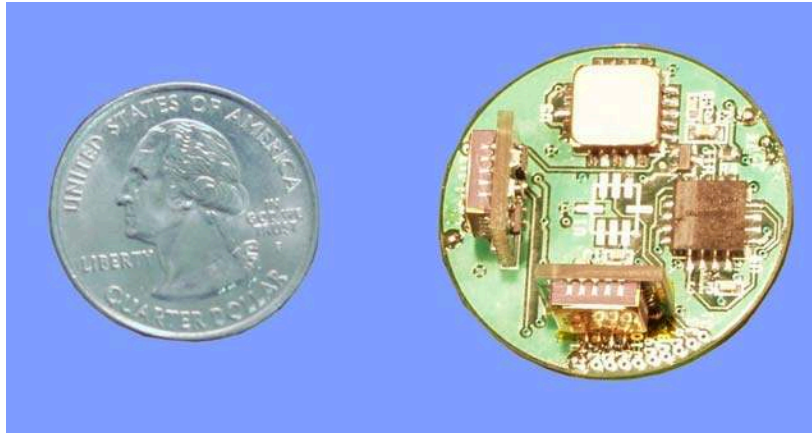


# SYNTRONICS

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### **3-Axis Accelerometer Module (High G)**

The 3-Axis Accelerometer Module is a compact and extremely sensitive accelerometer that can detect acceleration, inclination and vibration. Using the appropriate data collection hardware and software, you can graph any of these components, or calculate the magnitude of the net acceleration. The 3-Axis Accelerometer can be used for a wide variety of telemetry experiments and demonstrations, both inside the lab and outside. The module is especially designed to be utilized with the core telemetry module. These accelerometers feature an innovative MEMS sensor structure capable of detecting accelerations and integrating the sensor with advanced signal conditioning circuitry on a single die. The module is capable of surviving, and can measure accelerations of up to 20,000 g's.

The accelerometer is a +5 VDC part with a current draw of 8 to 10 mA and a +/- 4 V differential output. The part is a capacitive, micro-machined, nitrogen-damped, hermetically sealed unit that is rated for operating in temperatures from -55°C to +125°C.