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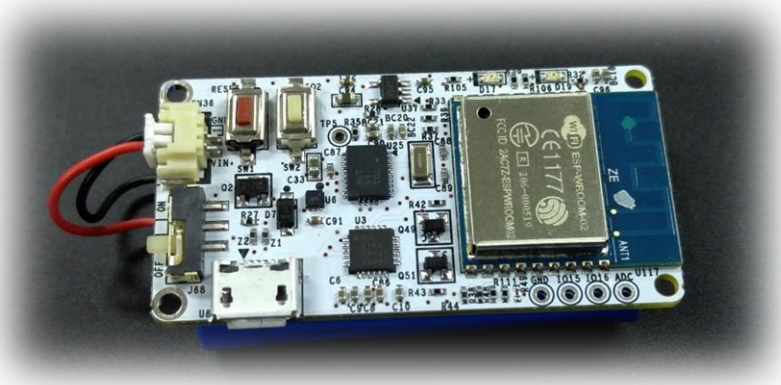
Biscuit™

Programmable Wi-Fi 9-Axis Absolute Orientation Sensor Module



User Programmable

Users can develop and execute their own programs using Arduino IDE, utilizing the 3 dimensional sensor data.

Wi-Fi Connection

The 9-Axis sensor data can be transmitted through Wi-Fi connection to any host.

Cost Effective

Biscuit™ provides highly reliable and accurate sensor data at low cost.

Sensor Data	• 3-Axis Gyroscope • 3-Axis Accelerometer • 3-Axis Geomagnetic Sensor • 3-Axis Orientation: Quaternion, Euler Angle, Rotation Vector • Linear Acceleration • Gravity • Heading • Temperature
Sensor Performance	• Accelerometer Ranges: ±2g, ±4g, ±8g, ±16g selectable • Accelerometer Resolution: 14 bit • Gyroscope Ranges: ±125°/s, ±250°/s, ±500°/s, ±1000°/s, ±2000°/s selectable • Gyroscope Resolution: 16 bit • Geomagnetic Sensor Ranges: ±1300μT (x, y axis), ±2500μT (z axis) • Geomagnetic Sensor Resolution: 13 / 13 / 15 bits for x / y / z axes
Wi-Fi	• Protocol: 802.11 b/g/n • Frequency: 2.4 GHz band
MCU	• CPU: 32-bit, 80 MHz • Flash Memory: 2 MB
IDE	• Arduino IDE
Size	• 25mm x 48mm (PCB)
Power	• Battery Operated • Consumption: 75 mA (sensors and Wi-Fi turned-off)