

“THREE AXIS ACCELEROMETER”



is a small form factor, integrated digital output 3-axis accelerometer with a feature set optimized for cell phones and consumer product motion sensing. Applications include user interface control, gaming motion input, electronic compass tilt compensation for cell phones, game controllers, remote controls and portable media products. Low power consumption and small size are inherent in the monolithic fabrication approach, where the MEMS accelerometer is integrated in a single chip with the electronics integrated circuit. In the MC3416 the internal sample rate can be set from 128 to 1024 samples / second.

Application

- Wearable
- IoT & IoMT
- Remote controls, gaming
- Vibration in Cell phone
- VR & game controllers



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±2, ±4, ±8, ±12, ±16g range.

IC has a 16-bit resolution.

128 to 1024 Output Data Rate.

4 µA typical Standby current.

Low typical active current.

Benefits

- + I2C interface, up to 1 MHz
- + High reliability thru single-chip 3D silicon MEMS technology.

Pin Out Diagram



1	VDD/VDDIO	Power supply (+3.3 V)
2	GND	Ground
3	INTN	Interrupt active LOW
4	SDA	I2C serial data input/output
5	SCL	I2C serial clock input

Notes:

- 1) SDA pin requires a pull-up resistor, typically 4.7k Ω to pin VDD/VDDIO. Higher resistance values can be used (typically done to reduce current leakage).
- 2) INTN pin can be configured by software to operate either as an open-drain output or push-pull output (mode register). If set to open drain, then it requires a pull-up resistor, typically, 4.7k Ω to VDD/VDDIO.
- 3) INTN pin polarity is programmable in the mode register.

For more details: enquiry@parrytech.net

Product Ordering Guide

Part number : PTACCBOB-MS001V1

About Parry Technology

Product Engineering/System integration services:

Our engineering services ranges from early engagement with customers to understand the system needs, convert the needs into requirements, finalize on the right technology implementation, circuit design, simulations, PCB development & testing, characterization, final qualifications, documentations at all stages and assistance on the product manufacturing and deployment.

End-to-End Solution for IoT Deployments
IoT Modules, Platform
Cloud Solution

Estore:

Ready to use subsystem modules/products for you to quickly test, develop Internet of Things (IoT) applications.