MMA8453QR1

Data Sheet

Xtrinsic Accelerometer, I2C, 1.91-3.6V, XYZ, 2/4/8g, 10bit, QFN 16, Reel

Manufacturers	NXP Semiconductor
Package/Case	QFN-16
Product Type	Motion & Position Sensors
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for MMA8453QR1 or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

General Description

MMA8453QR1 is a three-axis accelerometer sensor manufactured by NXP Semiconductors. It is a micro-electromechanical systems (MEMS) sensor that measures acceleration and tilt in three perpendicular axes.

Features

Three-axis accelerometer with a resolution of up to 14 bits

Selectable measurement range of ±2g, ±4g, or ±8g

Low power consumption mode with a typical current consumption of 6µA

Built-in self-test feature for easy testing and verification

2-wire serial interface for communication with a microcontroller

Small package size of 3mm x 3mm x 1mm

Application

Mobile devices such as smartphones, tablets, and gaming consoles for motion sensing, gaming, and augmented reality applications

Industrial and automotive applications for vibration monitoring, tilt sensing, and asset tracking

Medical devices for monitoring patient movements and activities

Robotics for motion control and stability

Related Products

[MMA8653FCR1]

NXP Semiconductor

DFN-10

[MMA8451QT]

NXP Semiconductor

QFN-16

[MMA7455LR1]

NXP Semiconductor

LGA-14

[MMA7361LCR1]

NXP Semiconductor

LGA-14

[MMA6813BKCWR2]

NXP Semiconductor

QFN-16

[MMA7260Q]

NXP Semiconductor

QFN-16

[MMA8450QR1]

NXP Semiconductor

QFN-16

[MMA7660FCR1]

NXP Semiconductor

QFN-10