



$\pm 2g/\pm 4g/\pm 8g$, Low g, 10-bit Digital Accelerometer

MMA8453Q

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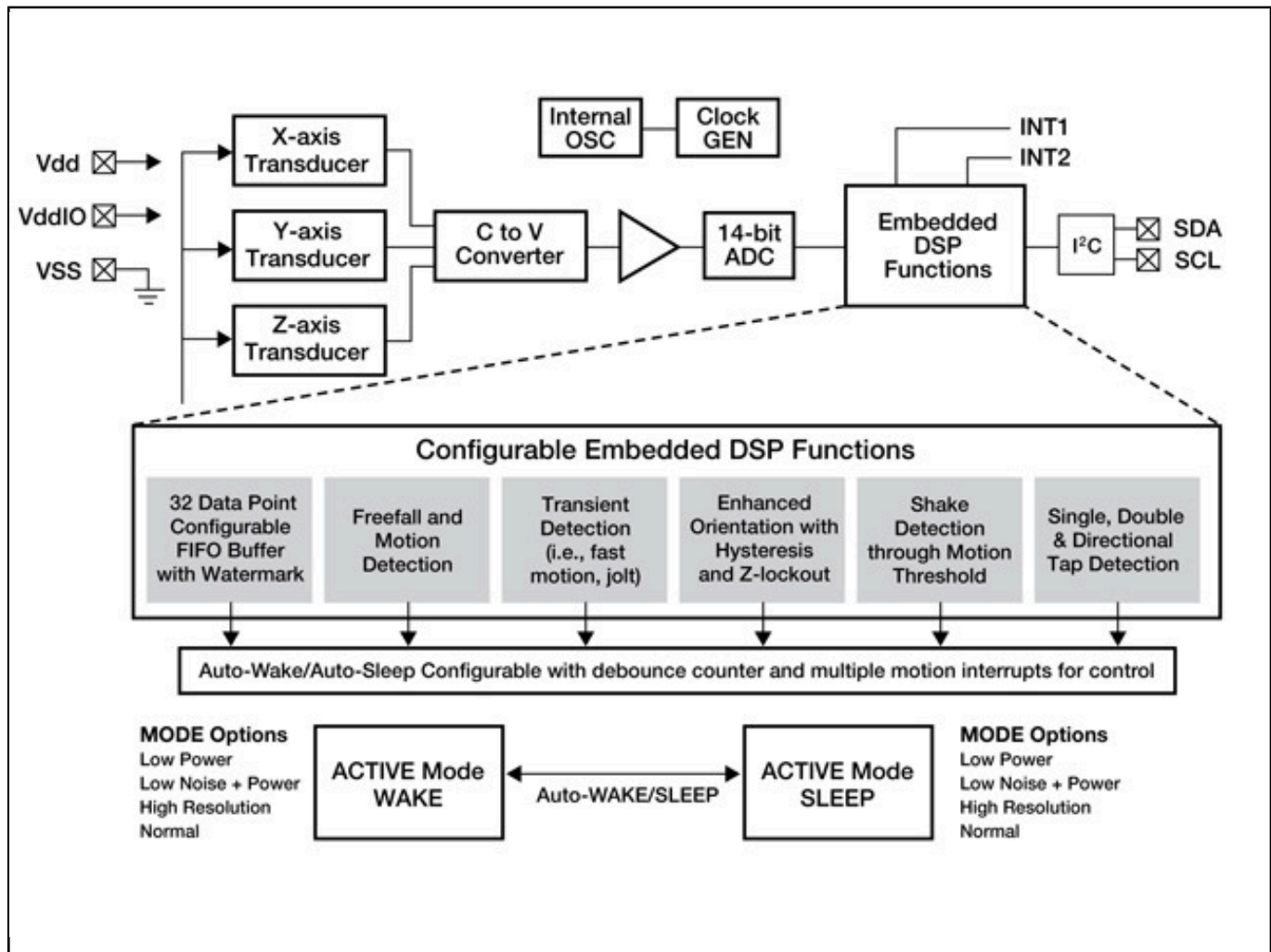
This page contains information on a product that is no longer manufactured (discontinued). Specifications and information herein are available for historical reference only.

Last Updated: Feb 21, 2025

This product is in “End of Life” status, we recommend [FXLS8971CF](#) or [FXLS8974CF](#) as a replacement. In cases where MMA845xQ is absolutely required, customers may reach out to Rochester electronics to check available stock.

The MMA8453Q is a smart low-power, three-axis capacitive micromachined accelerometer with 10 bits of resolution. This accelerometer is packed with embedded functions with flexible user-programmable options configurable to two interrupt pins. Embedded interrupt functions allow for overall power savings relieving the host processor from continuously polling data. The MMA8453Q has user-selectable full scales of $\pm 2g/\pm 4g/\pm 8g$. The device can be configured to generate inertial wake-up interrupt signals from any combination of the configurable embedded functions allowing the MMA8453Q to monitor events and remain in a low-power mode during periods of inactivity. The MMA8453Q is available in a 3 mm x 3 mm x 1 mm QFN package.

MMA8452Q Acceleration Sensor Block Diagram Block Diagram



View additional information for [±2g/±4g/±8g, Low g, 10-bit Digital Accelerometer](#).

Note: The information on this document is subject to change without notice.

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