



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

MMA8453Q

Not Recommended for New Designs

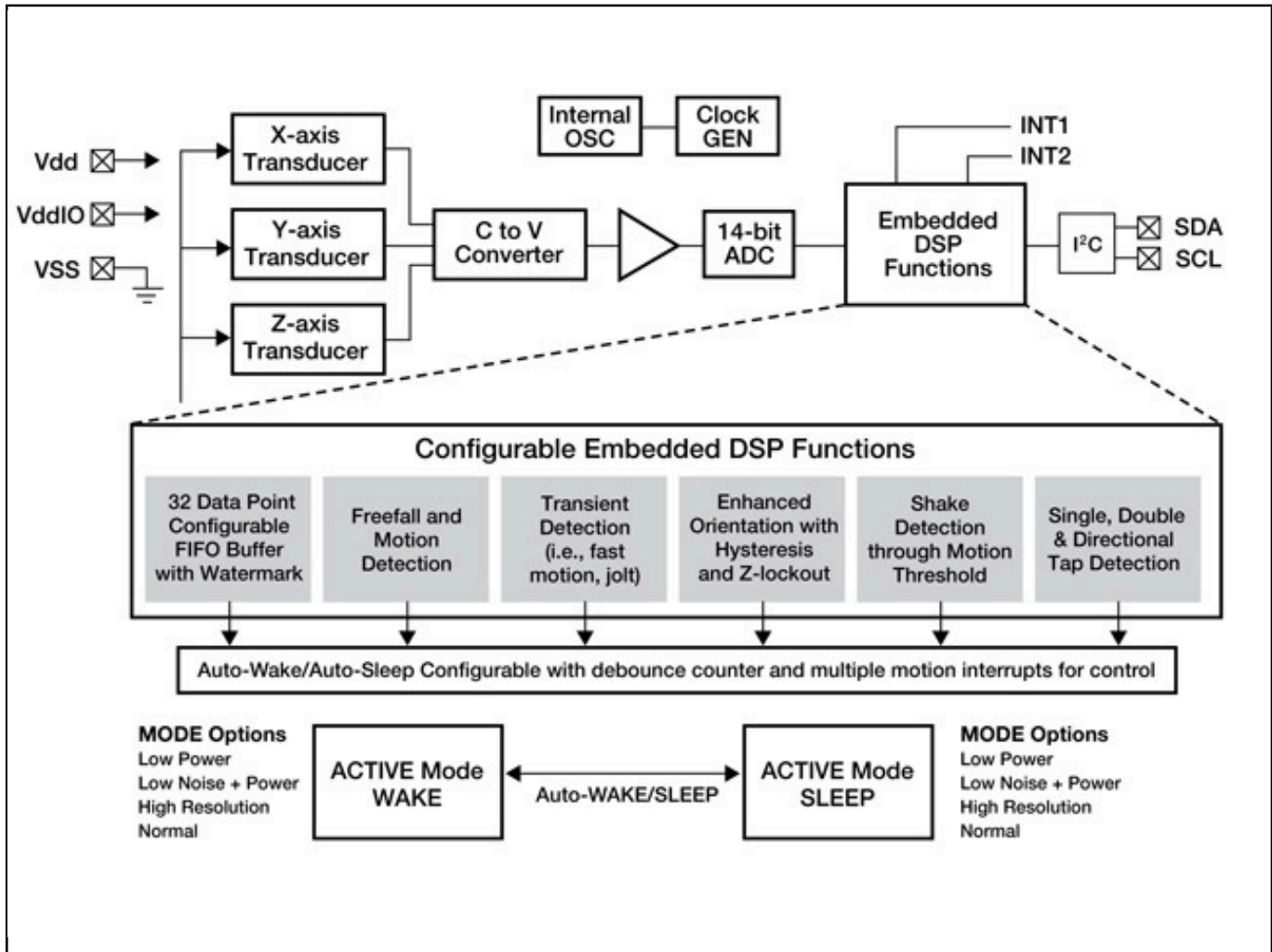
This page contains information on a product that is not recommended for new designs.

Last Updated: Apr 4, 2024

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



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.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2024 NXP B.V.