



$\pm 2g/\pm 4g/\pm 8g$, Low g, 14-bit Digital Accelerometer

MMA8451Q

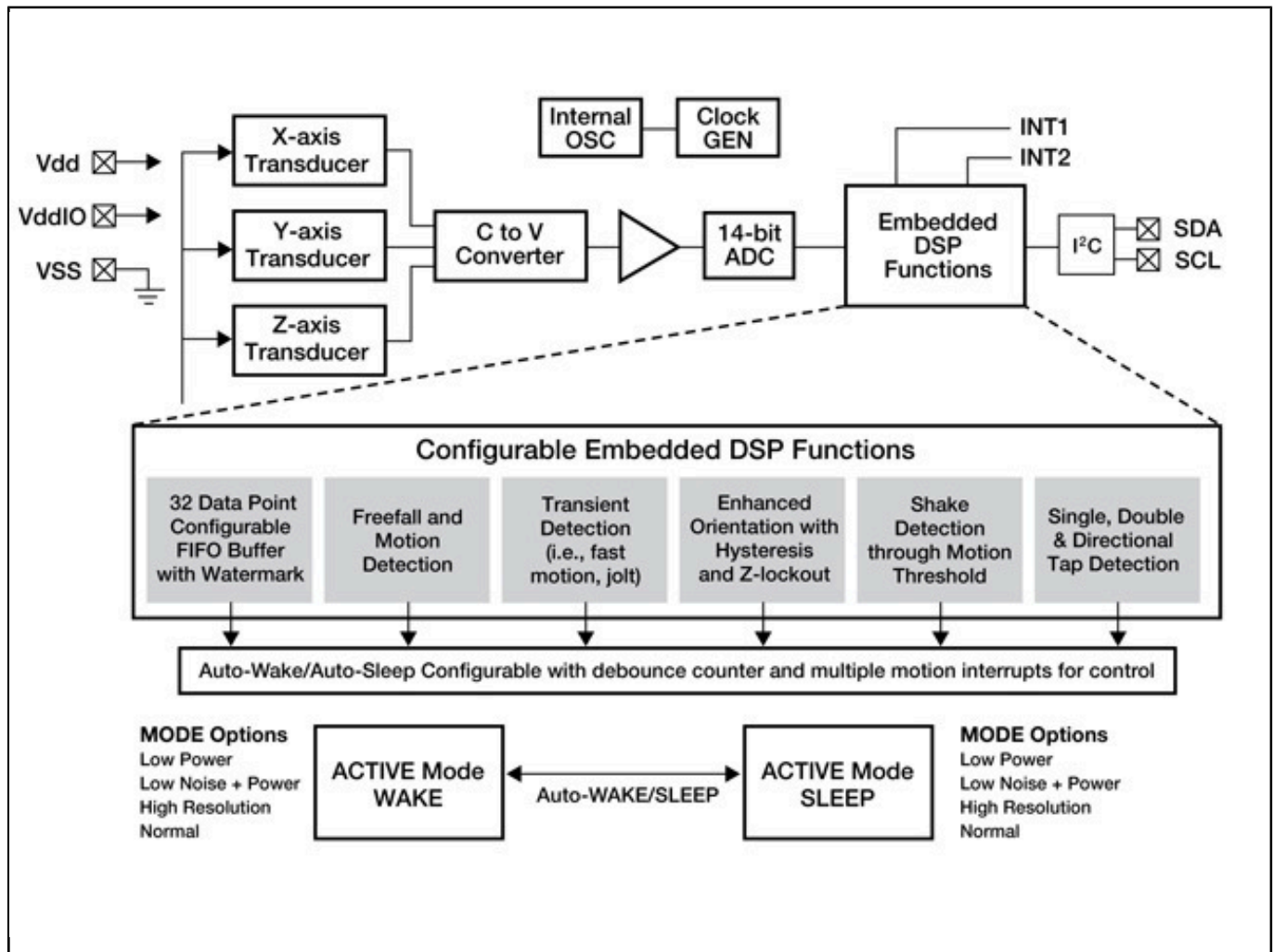
Last Updated: Dec 17, 2024

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 NXP® MMA8451Q is a low-power, three-axis capacitive micromachined accelerometer with 14 bits of resolution, featuring:

- Embedded functions with flexible user-programmable options, configurable to two interrupt pins
- Embedded interrupt functions for overall power savings relieving the host processor from continuously polling data
- Access to both low-pass filtered data as well as high-pass filtered data, which minimizes the data analysis required for jolt detection and faster transitions
- Inertial wake-up interrupt signals from any combination of the configurable embedded functions allowing the MMA8451Q to monitor events and remain in a low-power mode during periods of inactivity

MMA8452Q Acceleration Sensor Block Diagram Block Diagram



View additional information for [±2g/±4g/±8g, Low g, 14-bit Digital Accelerometer](#).

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

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