



$\pm 2g/\pm 4g/\pm 8g/\pm 16g$, Low Power 12-Bit Digital Accelerometer

FXLS8971CF

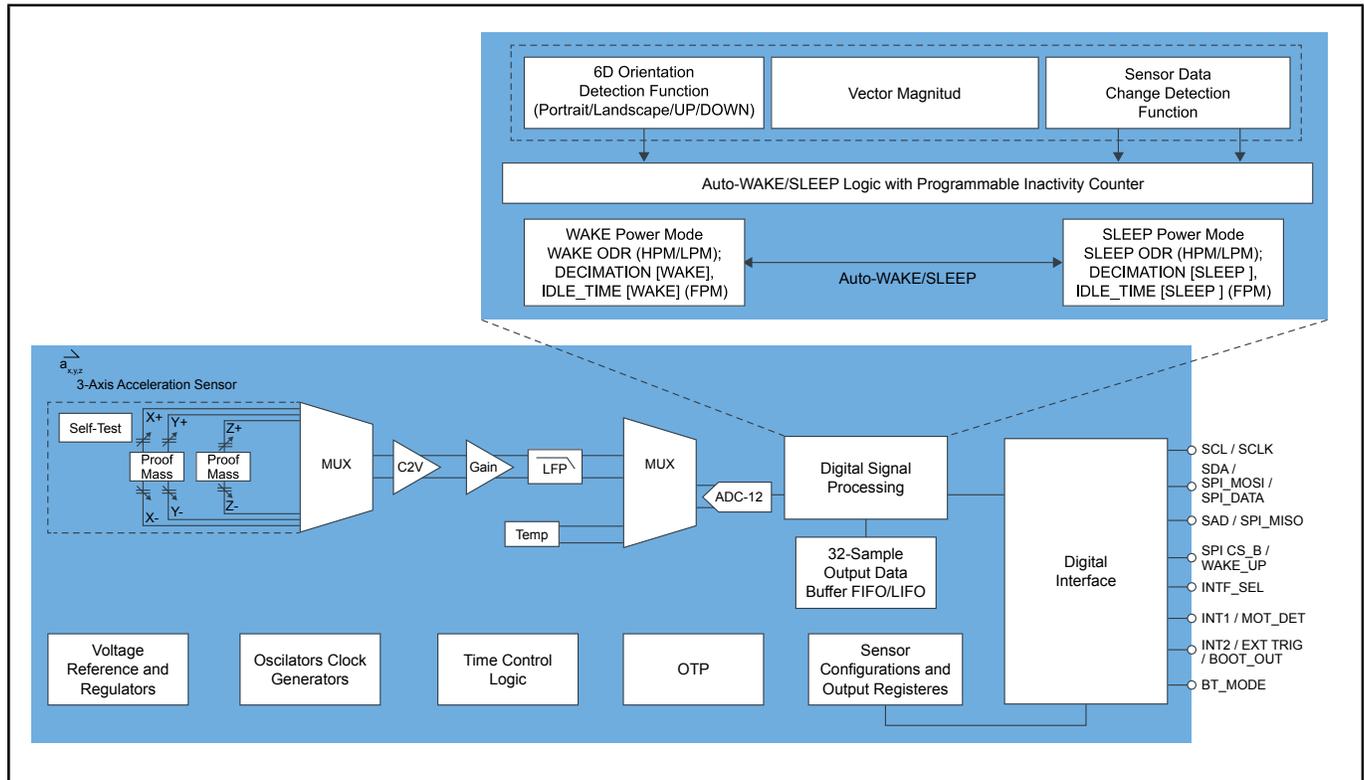
Last Updated: Feb 3, 2026

As of February 2, 2026, NXP MEMS sensor products have been transitioned to STMicroelectronics. For more information, contact STMicroelectronics.

FXLS8971CF is a compact 3-axis MEMS accelerometer designed for use in a wide range of industrial and medical IOT applications that require excellent offset and sensitivity stability over temperature. The part supports both high-performance and low-power operating modes, allowing maximum flexibility to meet the resolution and power needs for various unique use cases. A number of advanced, integrated digital features enable designers to reduce the overall system power consumption and simplify host data collection.

FXLS8971CF is available in a 3 mm x 3 mm x 1.25 mm 12-pin QFN package with 0.65 mm pitch and wettable flanks. The device is qualified to industrial standards over the extended $-40\text{ }^{\circ}\text{C}$ to $105\text{ }^{\circ}\text{C}$ temperature range. The combination of sensor performance, system power-saving features, and extended over-temperature-range performance makes FXLS8971CF an ideal accelerometer for motion and position sensing/inclinometer applications in the IoT and industrial segments.

FXLS8961AF Block Diagram



View additional information for [±2g/±4g/±8g/±16g, Low Power 12-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. © 2026 NXP B.V.