



Universal Sensing Modules with Wired Connectivity

UNIVERSAL-SENSING-MODULES

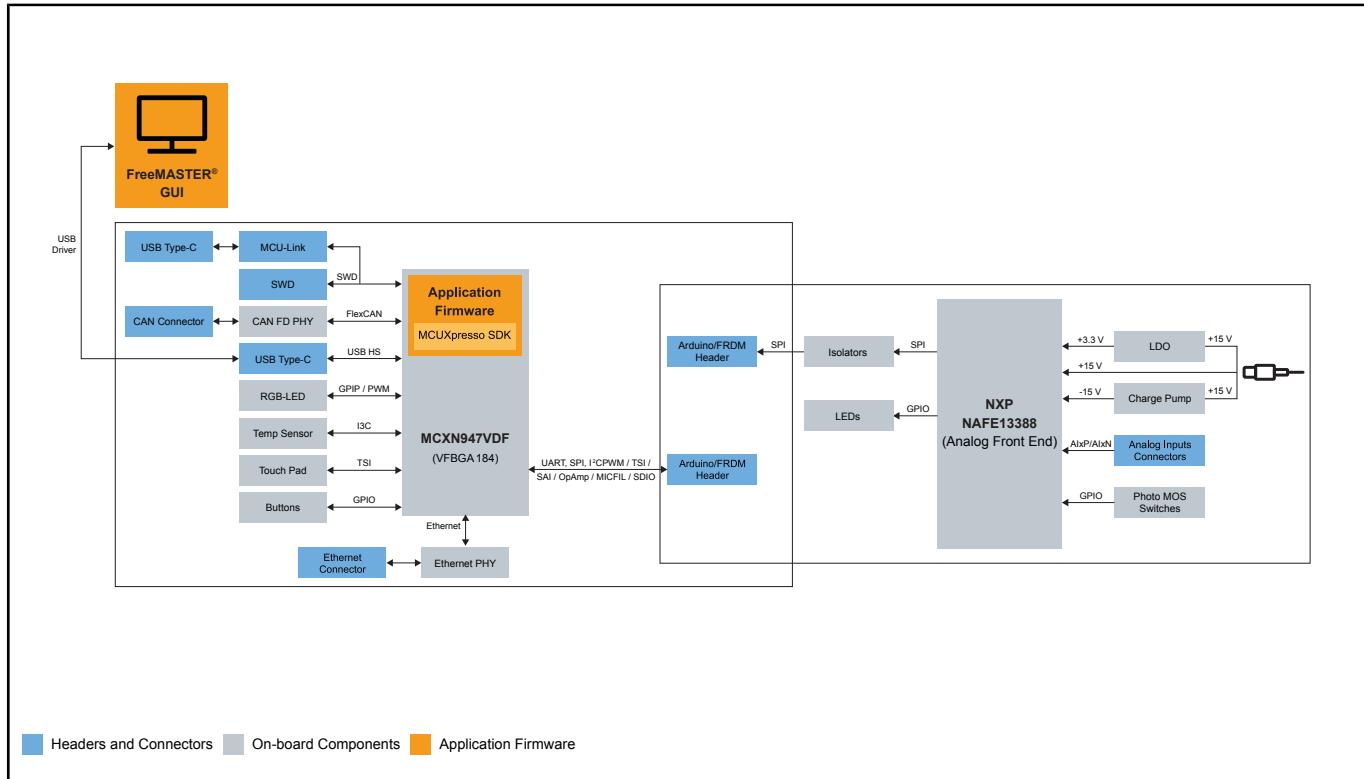
Active

Last Updated: Dec 23, 2025

NXP's universal sensing module is a universal, software-configurable analog input solution designed for high-precision sensing and edge intelligence. It supports versatile sensor inputs (voltage, current, temperature, resistance, pressure and weight) and ensures reliable wired connectivity via CAN FD, Ethernet and USB.

With an advanced [NAFE13388](#) analog front end and an [MCX N947 MCU](#), this module delivers high-accuracy, high-precision data, in addition to real-time diagnostics, anomaly detection and predictive maintenance for industrial automation, lab instrumentation and smart manufacturing.

Universal Sensing Modules Block Diagram



[View additional information for Universal Sensing Modules with Wired Connectivity.](#)

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.