



LEM Sensor Board for X-IN-1 Electrification Applications

XIN1-FB-LEM **NEW**

Preproduction

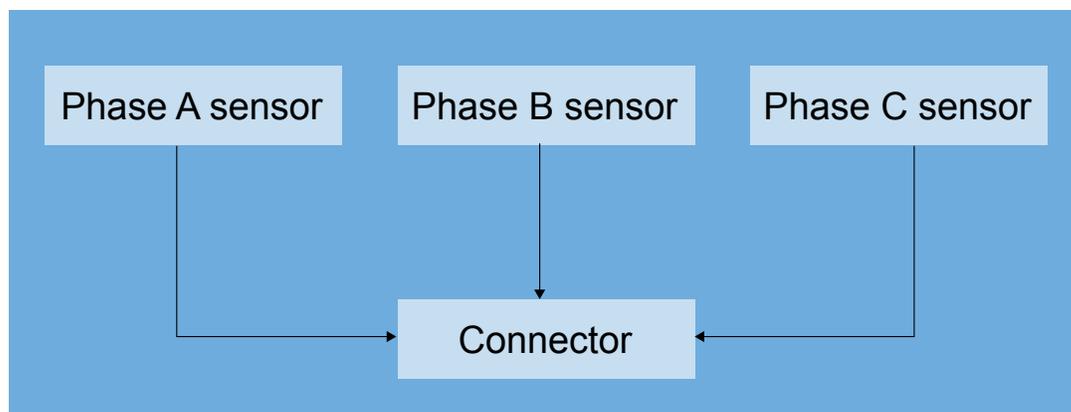
This page contains information on a preproduction product. Specifications and information herein are subject to change without notice. For additional information please contact your sales representative.

Last Updated: Mar 20, 2026

As a component of the system's control loop, this LEM sensor board provides precise current measurements that facilitate high-performance inverter functionality within the X-IN-1 modular platform.

The LEM current sensing board offers accurate and dependable current measurement for automotive and industrial applications. It incorporates three open-loop Hall effect current sensors that support bidirectional current sensing up to ± 100 A. This solution enables galvanically isolated current measurement, ensuring safety and robustness in high-power systems. Each channel delivers a single-ended analog output centered at 2.5 V, optimized for direct connection to standard ADC inputs, thereby enabling seamless integration with control and monitoring systems.

LEM Sensor Board for Inverter Function in X-IN-1 Modular Platform Block Diagram



View additional information for [LEM Sensor Board for X-IN-1 Electrification Applications](#).

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.