



BMx7318 Evaluation Board for All-in-One BMS Solution

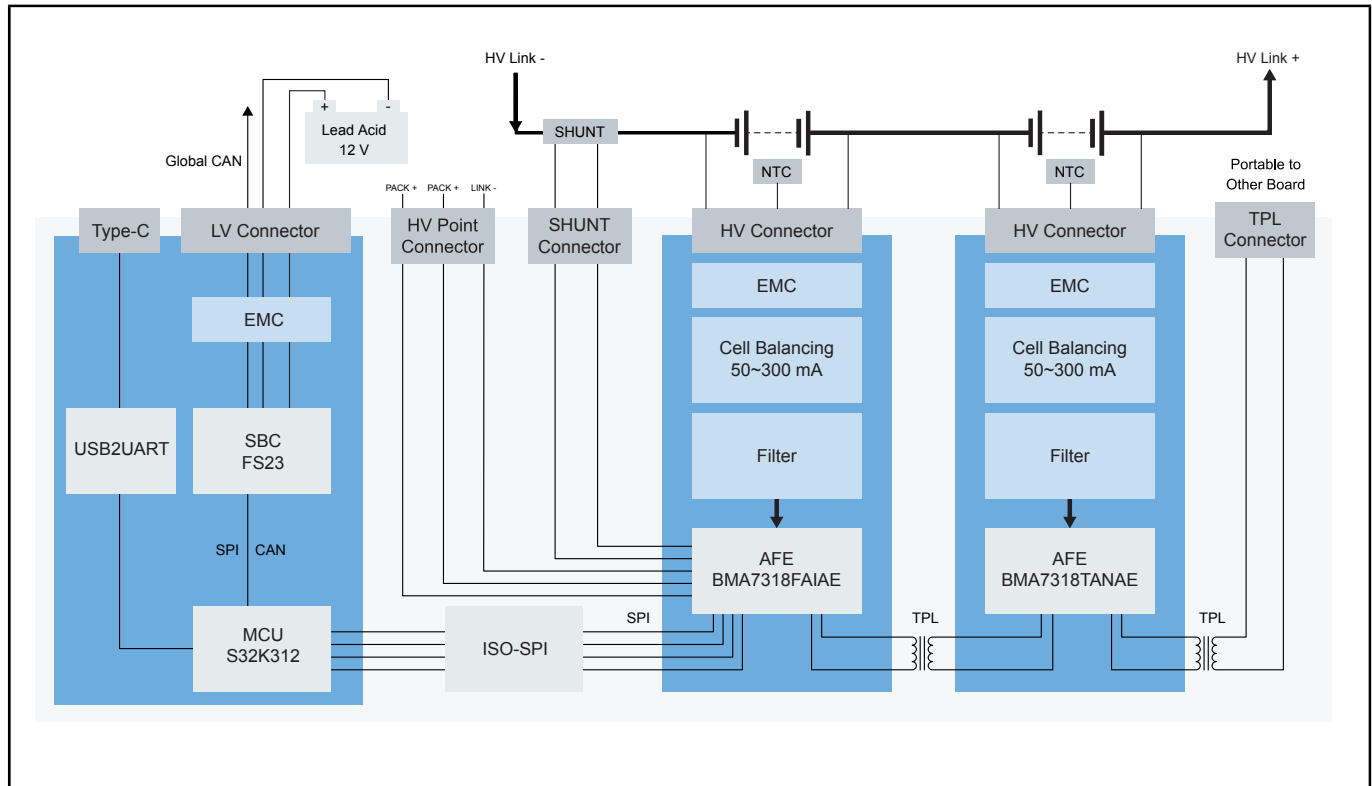
EVBMA7318AIO

Last Updated: Jul 16, 2026

The EVBMA7318AIO provides a solution for both centralized and distributed lithium#ion battery management architectures in automotive and energy storage system (ESS) applications. The board integrates two BMA7318 devices controlled by a single microcontroller (MCU). Each BMA7318 can measure lithium#ion batteries with 4 to 18 cells.

The first BMA7318 communicates with the MCU via isolated SPI (ISO#SPI) and connects to the second BMA7318 through TPL with transformer isolation. Off#board TPL communication also uses transformer isolation. The MCU is powered by a System Basis Chip (SBC) supplied from a 12 VDC source.

BMx7318 Evaluation Board for All-In-One BMS Solution Block Diagram



View additional information for [BMx7318 Evaluation Board for All-in-One BMS Solution](#).

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.