



BMx7318 48 V BMS Evaluation Board

EVBMA7518S48V NEW

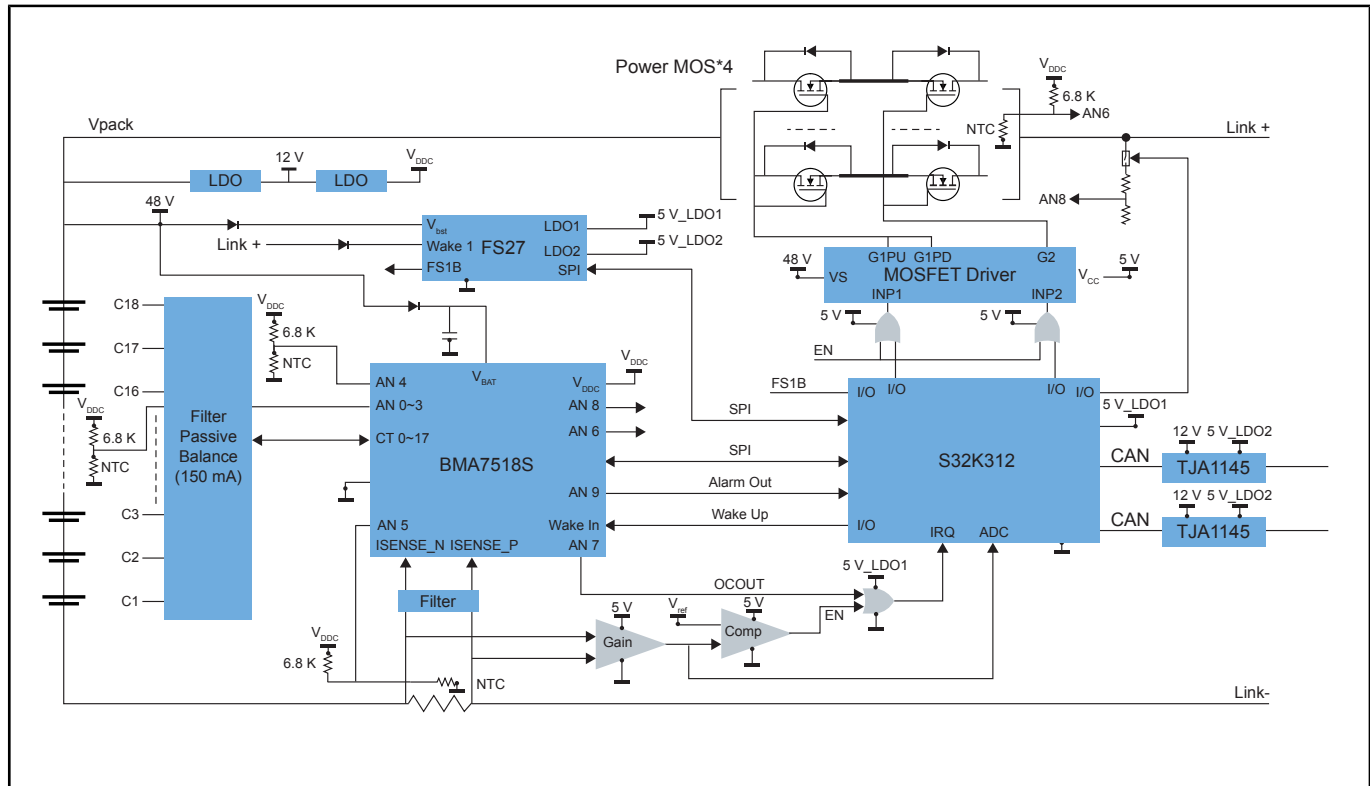
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The EVBMA7518S48V provides a complete solution for 48 V battery management system (BMS) for automotive and industrial applications. The board integrates one BMA7518 device controlled by an S32K312 microcontroller (MCU). The BMA7518 supports measurement of lithium-ion batteries with four to 18 cells.

The BMA7518 communicates with the MCU through non-isolated serial peripheral interface (SPI), while off-board communication uses transformer physical layer (TPL) with transformer isolation. The MCU is powered by an FS27 system basis chip (SBC), supplied directly from a 48 V direct current (VDC) source.

The board also integrates a MOSFET driver for charge/discharge control and includes a redundant current measurement channel for timely overcurrent (OC) protection, enhancing overall functional safety performance.

EVBMA7518S48V Block Diagram



View additional information for [BMx7318 48 V BMS Evaluation Board](#).

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