Solution for Electrochemical Impedance Spectroscopy (EIS) in Battery Management Systems

BMS-EIS

Preproduction

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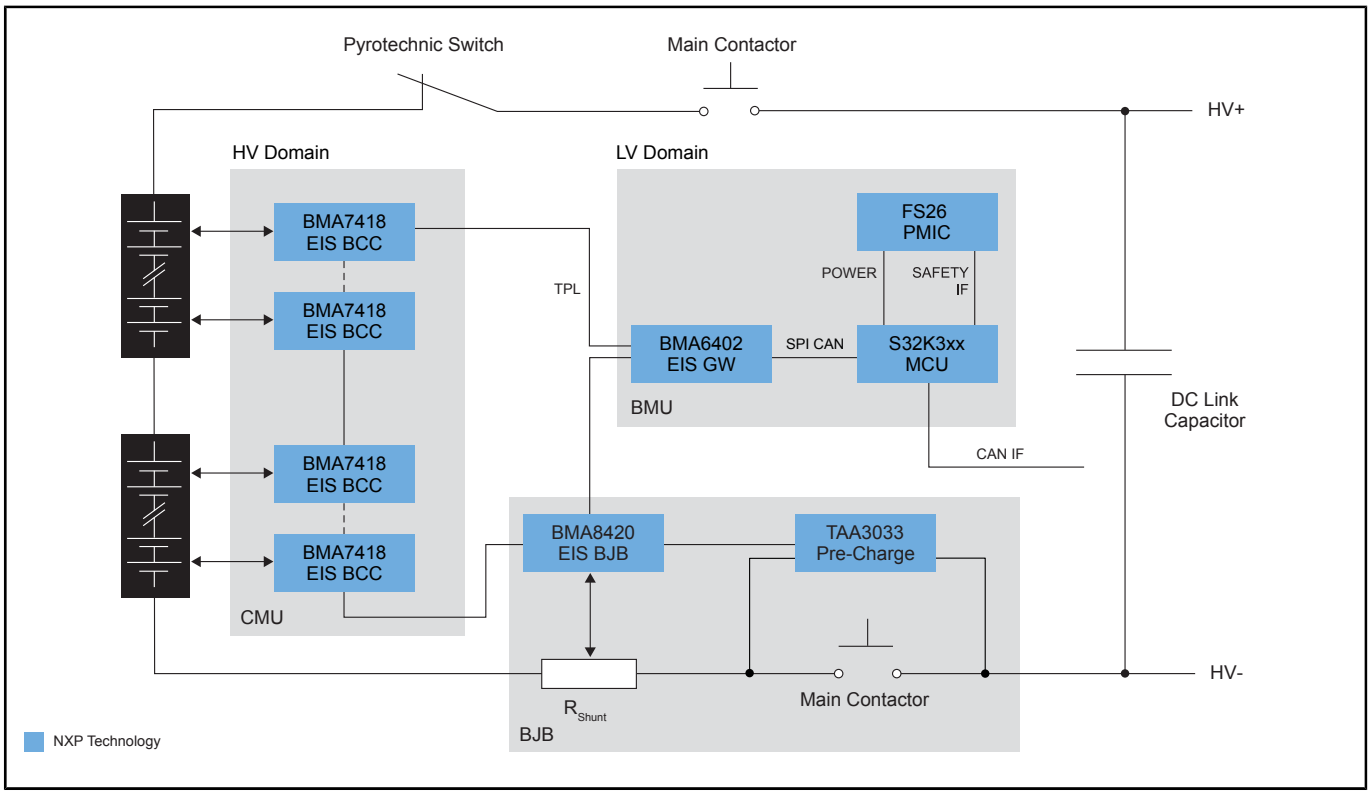
A battery management system (BMS) chipset, with electrochemical impedance spectroscopy (EIS)-enabled, integrates classical laboratory technology into in-vehicle use. This solution consists of three gateway devices, one to synchronize devices and transfer data, another as a cell module controller to measure voltage and voltage-based component response and the junction box controller to measure the current and current based excitation frequency component. NXP's new devices provide the benefits of EIS in chip packages that can be directly exchanged on the cell module and battery junction box (BJB) control units.

BMS EIS Block Diagram



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