18-Channel Li-Ion Battery Cell Controller IC

BMA7318-BMI7318-BMA7518

Preproduction

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

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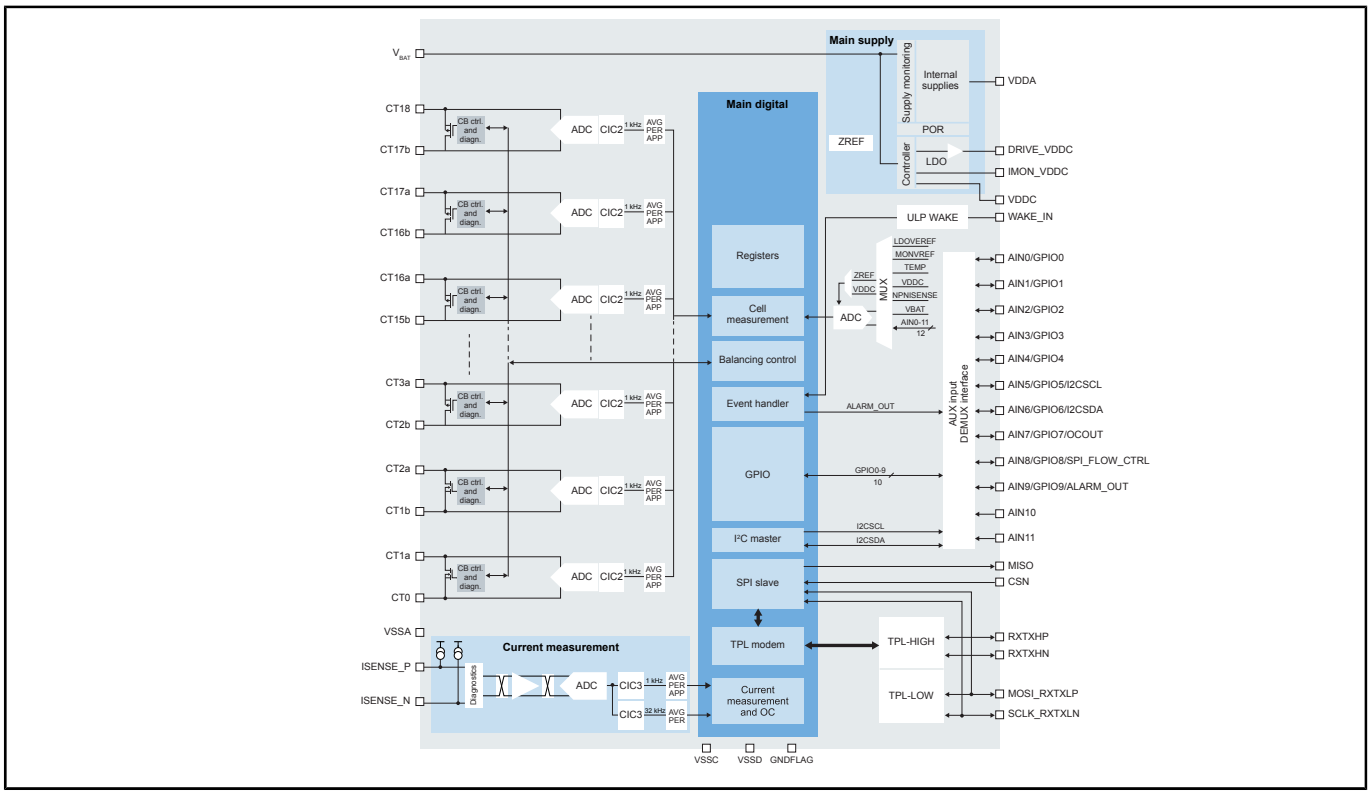
The BMA7318 is a Li-ion battery cell controller IC designed specifically for automotive HVBMS, industrial ESS, and 48 V applications. It can monitor up to 18 battery cells and 12 temperatures. The BMA7318 features configurable averaging of cell voltage measurements through digital filtering, onboard balancing up to 300 mA, and integrated current measurement, this device supports ISO 26262, up to ASIL C safety capability and high integrity safety levels up to industrial SIL-2.

The BMA7318 also includes an integrated communication bridge (SPI2TPL) with robust isolated 2.0 Mbit/s communication. The BMA7318 is designed to provide up to 25 years of ESS application lifetime with an extended mission profile (EMP) and shares a product family approach with PIN2PIN compatibility between the BMA7318 and BMI7318 devices.

BMA7318-BMI7318-BMA7518 Block Diagram



View additional information for 18-Channel Li-Ion Battery Cell Controller IC.

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