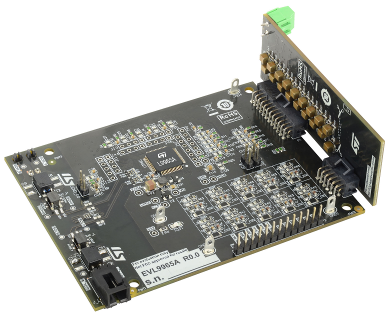
EVL9965A, EVL99BM218

Data brief

EVL9965A/EVL99BM218 promotional board based on L9965A/L99BM218 device for battery managements system



Product status link
EVL9965A
EVL99BM218
STSW-L9965
STSW-L9965FW

Features

- BMS controller board supporting up to 18 cells in series
- Number of configurable cells using jumper SMD:
  - Compatible load board to simulate 18 series-connected cells
- 10 configurable GPIOs, usable as:
  - Inputs for NTC temperature sensors
  - Digital lines to interface external SPI
  - I²C memories/peripherals
- Enables safe bench evaluation and validation of BMS functions without a real battery pack
- Fully synchronized high-accuracy measurements on cell voltage, busbar and stack voltage with dedicated ADC
- SPI target for direct MCU interface
- A dedicated GUI is available for configuration, monitoring, and evaluation with dedicated firmware

Application

- Automotive battery monitoring systems
- Energy storage systems
- UPS

Description

The promotional board integrates the L9965 BMS device, a complete battery pack monitoring, balancing, and protection system for Li-Ion and Li- Polymer cells. The L9965/L99BM218 evaluation kit consists of an expansion board containing the L9965 IC for battery pack monitoring solutions, along with a load board. Equipped with a high-precision ADC, the device continuously measures individual cell voltages, total stack voltage, and temperature via external NTC sensor. These voltage measurements are performed cyclically with a configurable timing loop.

A dedicated graphical user interface (GUI) is available for configuration, monitoring, and evaluation with dedicated firmware. Together, these tools enable simple and fast evaluation of the battery management system solution for use with the EVL9965T or EVL99BM2T transceiver board and MCU board (SPC582B-DIS or Nucleo-L476RG).

Revision history

Table 1. **Document revision history**

Date	Version	Changes
04-May-2026	1	Initial release.

Contents

List of tables