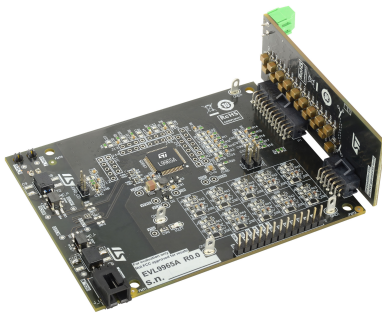


EVL9965A evaluation board based on L9965A device for battery managements system



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

Product status link

[EVL9965A](#)
[STSW-L9965](#)
[STSW-L9965FW](#)

Application

- Automotive battery monitoring systems
- Energy storage systems
- UPS

Description

The evaluation board integrates the L9965 BMS device, a complete battery pack monitoring, balancing, and protection system for Li-Ion and Li- Polymer cells. The L9965 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 transceiver board and MCU board (SPC582B-DIS).

Revision history

Table 1. Document revision history

Date	Version	Changes
04-May-2026	1	Initial release.
11-Aug-2026	2	1. Removed L99BM218 part number; 2. Removed EVL99BM2T part number 3. Updated document title; 4. Removed compatibility with NUCLEO-L476RG.



Contents

Revision history	2
List of tables	4



List of tables

Table 1.	Document revision history	2
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