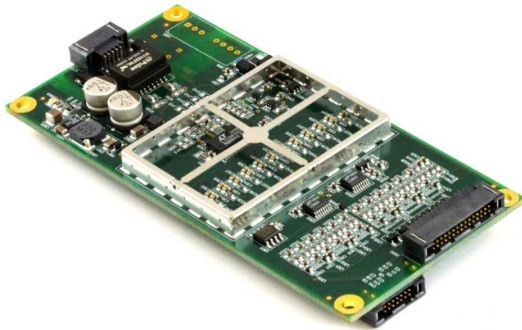




Battery Management System



Modular battery management system and batterypack-components

The battery management system (BMS) is the central element for monitoring and controlling lithium-ion energy storage systems. The modular Li-BMS is very easy to apply in a variety of types and sizes of battery packs through its flexible hardware and software structure.

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- ✓ Flexible and modular
 - ✓ Ideal platform for experimental and development projects
 - ✓ Sophisticated security concepts
 - ✓ Adaptive BMS for easy adjustments to projects and adaption requirements
 - ✓ High-quality electronic components
 - ✓ External communication: CAN, UART
-



Modular Battery Management System – Components | Prototyping

The battery management system (BMS) is the central element for monitoring and controlling lithium-ion energy storage systems. The modular Li-BMS is very easy to apply in a variety of types and sizes of battery packs through its flexible hardware and software structure.

- ✓ Flexible and Modular
- ✓ Flexible and Modular
- ✓ BMS Platform Solution/ Prototyping
- ✓ Flexible and Modular
- ✓ BMS Platform Solution/ Prototyping
- ✓ Prototyping hardware
- ✓ Series production possible according to customer requirements on demand
- ✓ Technical foundation for customer
- ✓ Individual Solution



LION Measure Module 18 (LMM18)

The new developed LMM18 with the LTC6813 chip from Analog Devices is used for a fast and precise

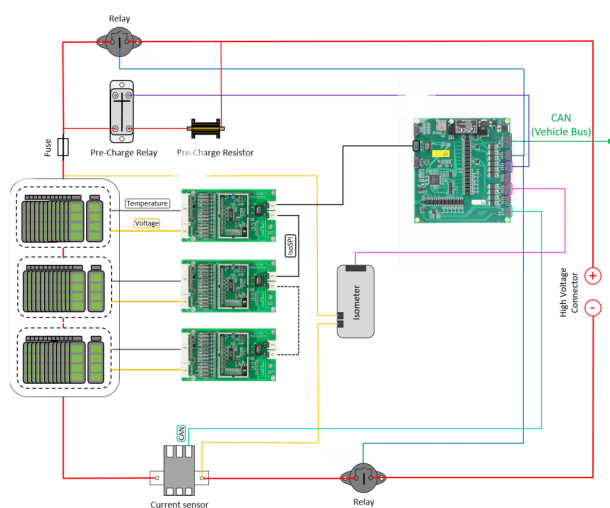
- [Flyer BMS](#)



LION Low Volt System (LLVS)

The LLVS can be used for low voltage applications – especially 48V and 72V applications with requirements for compact size and packaging under optimized costs. The Low Volt System is a platform for low voltage applications and is developed as a technology carrier according to customer-specific requirements.

- [Datasheet LLVS](#)



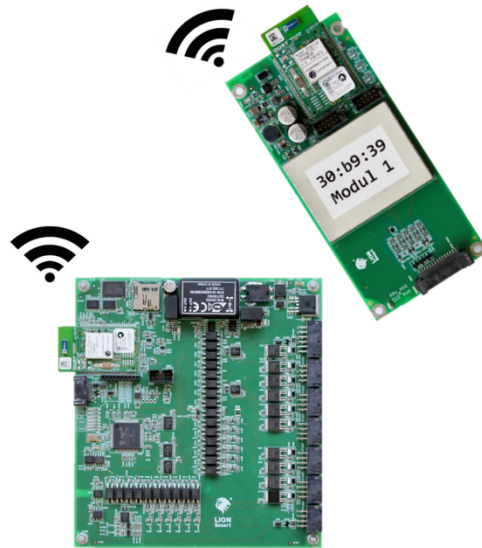
BMS system architecture

The Li-BMS consists of the control module LION Control Module with a central processor unit which can be flexibly connected to up to 16 measurement modules LION Measure Module via a bus system. The system features a very fast and precise measurement of cell voltages and cell temperatures.

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The wireless battery management system was built in collaboration with Linear Technology and BMW for a prototype concept car. Based on linear high-battery battery pack sensors with their SmartMesh network products and our high end BMS, the vehicle concept was applied to a BMW i3.

Wireless connectivity increases reliability, reduces costs, saves weight, and reduces cabling requirements for large multi-cell battery packs in all types of vehicles. In addition, wireless connections allow for flexible placement of battery modules and installation of extra sensors in locations unsuitable for a wiring harness.



- [Flyer Wireless BMS](#)

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Your contact

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