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## I3 battery bms

What is a wireless battery management system (BMS)?

Modular BMS Electronics Using isoSPI Connected in a Daisy Chain In a wireless BMS, each module is interconnected via a wireless connection instead of a CAN Bus cable or an isoSPI twisted pair. Today, Linear Technology is demonstrating the industry's first wireless automotive battery management system (BMS) concept car.

What is a wireless BMS concept car?

This wireless BMS concept car combines the LTC6811 battery stack monitor with Linear's SmartMesh<sup>™</sup>; wireless mesh networking products in a BMW i3, replacing the traditional wired connections between the battery packs and the battery management system.

How much power does a BMW i3 have?

The BMW i3 was ahead of the game with a single rectangular layer of 8 modules with 12 cells in each module. This allowed the engineers to create a simple design with a very high cell to pack mass ratio. Mostly cosmetic updates to the vehicle, but the power output increased from 127kW to 135kW for the s version.

What is a prismatic cell in a BMW i3?

The prismatic cell from Samsung SDI that is used in this pack has steadily increased in capacity from 60Ah to 94Ah and 120Ah in the final design. The BMW i3 was ahead of the game with a single rectangular layer of 8 modules with 12 cells in each module. This allowed the engineers to create a simple design with a very high cell to pack mass ratio.

The Battery Cell Module Supervision Circuit Control is designed to monitor and manage individual battery cells, ensuring balanced charging and optimal performance.

This wireless BMS concept car, developed by Linear's design partner LION Smart, combines Linear's highly accurate battery stack monitors with its SmartMesh<sup>™</sup>; wireless mesh ...

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Custom Battery Pack Integration: BMW i3 Technology Adaptable and robust plug-and-play power with our custom battery pack integration. Battery Expertise As a specialist in the development ...

Hello all, I have a 2014 i3-Rex. This one still has the 22 kWh battery. I would like to upgrade to the larger (almost double capacity) battery and use the old 22 kWh battery as a ...

The wireless BMS concept car, featuring the BMW i3, shows the promise of wireless technology to significantly improve reliability and simplify the design of automotive ...

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