Analog Devices Introduces Automotive Industry's First Wireless Battery Management System for Electric Vehicles

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General Motors to use ADI's Wireless Battery Management System Across its Ultium Battery Platform

NORWOOD, Mass.--(BUSINESS WIRE)--Sep. 9, 2020-- Analog Devices, Inc. (Nasdaq: ADI) today announced the industry's first wireless battery management system (wBMS), which enables automotive manufacturers increased flexibility to scale their electric vehicle fleets into volume production across a wide range of vehicle classes. This is the first wireless battery management system available for production electric vehicles, and it will debut on General Motors' production vehicles powered by Ultium batteries.

This press release features multimedia. View the full release here: https://www.businesswire.com/news/home/20200909005610/en/



Analog Devices introduces the industry's first wireless battery management system for production electric vehicles (Photo: Business Wire)

The implementation of ADI's wBMS eliminates the traditional wired harness, saving up to 90% of the wiring and up to 15% of the volume in the battery pack, as well as improving design flexibility and manufacturability, without compromising range and accuracy over the life of the battery.

ADI's wBMS includes all integrated circuits, hardware and software for power, battery management, RF communication, and system functions in a single system-level product that supports ASIL-D safety and module-level security building upon ADI's proven industry leading BMS battery cell measurement technology. By delivering high accuracy for the lifetime of the vehicle, the system enables maximum energy use per cell required for best vehicle range and supports safe and sustainable zero-cobalt battery chemistries, such as lithium iron phosphate (LFP).

"The transition of battery packs from wired to wireless connectivity enables automotive manufacturers to scale their electric vehicle platforms across multiple vehicle models to meet growing consumer demand," said Patrick Morgan, Vice President, Automotive at Analog Devices. "Our wBMS solution not only simplifies manufacturing, but also allows new systems to be built on wireless data, accelerating the entire industry towards a sustainable future. We are honored to bring this breakthrough system innovation to market with General Motors."

Additional system features enable batteries to measure and report their own performance, increasing early failure detection, and enabling optimized battery pack assembly. The data can be monitored remotely throughout the battery lifecycle – from assembly to warehouse and transport through installation, maintenance and into a second-life phase.

ADI and General Motors recently announced a collaboration, bringing the wBMS technology to General Motors' Ultium battery platform. The ADI technology helps ensure scalability of the Ultium platform across General Motor's future lineup, which will encompass different brands and vehicle segments, from work trucks to performance vehicles.

"We are pleased to collaborate with ADI to take the wBMS technology to production as part of our ground-breaking Ultium battery platform," said Kent Helfrich, Executive Director, Global Electrification and Battery Systems at General Motors. "ADI's wBMS technology enables the more widespread electrification of our fleet, and we look forward to a continued collaboration with ADI to deliver innovation in safety, quality, and performance for the future."

To learn more about ADI's wBMS, please visit: www.analog.com/electrification

Analog Devices, Inc.

Analog Devices (Nasdaq: ADI) is a leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit http://www.analog.com.

(ADI-WEB)

General Motors

General Motors (NYSE:GM) is a global company committed to delivering safer, better and more sustainable ways for people to get around. General Motors, its subsidiaries and its joint venture entities sell vehicles under the Chevrolet, Buick, GMC, Cadillac, Holden, Baojun and Wuling brands. More information on the company and its subsidiaries, including OnStar, a global leader in vehicle safety and security services, can be found at http://www.gm.com.

This release may contain forward-looking statements intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. These forward-looking statements include, among other things, statements by Messrs. Helfrich and Morgan and other statements regarding the expected opportunities, utilization, benefits, cost savings, product and service offerings and developments relating to our wireless battery management system that are based on current expectations, beliefs, assumptions, estimates, forecasts, and projections about the industry and markets in which the companies operate. The statements contained in this release are not guarantees of future performance, are inherently uncertain, involve certain risks, uncertainties, and assumptions that are difficult to predict. Therefore, actual outcomes and results may differ materially from what is expressed in such forward-looking statements, and such statements should not be relied upon as representing Analog Devices' expectations or beliefs as of any date subsequent to the date of this press release. Important factors that could cause actual results to differ materially from the results described, implied or projected in any forward-looking statements are included as risk factors as described in the most recent filings of Analog Devices with the Securities and Exchange Commission. Analog Devices does not undertake any obligation to update forward-looking statements made by us.

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