



GHSP Leverages Allegro MicroSystems' Technology to Shift the Future of Electric Vehicles with the Introduction of New eVibe System

04/30/2024

Technology highlights missing piece in the xEV driving equation, while also enabling broader EV market demand

MANCHESTER, N.H., April 30, 2024 (GLOBE NEWSWIRE) -- [Allegro MicroSystems, Inc.](#) ("Allegro") (Nasdaq: ALGM) a global leader in power and sensing semiconductor technology for motion control and energy efficient-system is pleased to announce, that [GHSP](#), a global provider of mechanical and electromechanical systems and portfolio company of JSJ Corporation, is closely collaborating with and has adopted Allegro's best-in-class gate driver and vehicle sensor technology for its new [eVibe](#) vibration enhancement system.

In the rapidly evolving world of xEV technology, there is a new class of xEV enthusiasts who crave a more immersive motoring experience. GHSP's eVibe system transforms xEV driving by providing drivers with the noise and vibrations that mimic the familiar feel and sounds of a traditional internal combustion engine. At the heart of this next-level technology, is Allegro's [A89500](#) motor driver and [APS12215](#) Hall-effect latch, which provide best-in-class performance and switching capabilities.

"From the beginning, our challenge has always been to create a solution that would address a unique and growing xEV market segment," said Dan Dawiedczyk, President of GHSP. "We are excited to collaborate and combine our industry experience and expertise, to help bring our vision to life. Together, Allegro and GHSP are developing groundbreaking innovations. We look forward to a winning partnership for many years to come."

Helping to elevate the end product, Allegro's A89500 motor driver allows for high power density and fast switching to help provide instant response and feel. Its transient robustness and wide input voltage range make it a standout solution in the market. The APS12215 Hall-effect latch, on the other hand, provides high-temperature performance and stable switching capabilities, enabling the eVibe system to precisely track and monitor the position of the motors' unbalanced weights, ultimately leading to a more realistic vibration experience. The eVibe technology allows several applications including ADAS, ICE emulation, or high performance.

"For more than a decade, Allegro has worked closely with market-leading automotive partners to develop innovative solutions that help shift the future of driving, power and performance in electric vehicles," said Suman Narayan, Allegro's Senior Vice President, Products. "Our latest collaboration highlights a new, growing market segment and demand for Allegro's technology. We value GHSP's automotive expertise and look forward to our continued partnership as we develop solutions that drive innovation."

The impact of eVibe extends beyond just the driving experience. It represents a shift towards the future of xEV technology and the way owners engage with their vehicles. From mimicking an idle feel to simulated engine throttle and high-speed gear shifts via premium vibration indicators, GHSP's technology is providing drivers with a more immersive and connected drive. This innovation has the potential to reshape the xEV market, catering to a wider range of custom options and individual customer preferences, while also helping to further the adoption of electric vehicles.

On Thursday, May 2, GHSP and Allegro will host a virtual round table discussing "The Evolution of eVibe with GHSP and Allegro MicroSystems." To learn more and register for this event please visit: <https://allegromicro.com/en/applications/automotive>

For more information about the eVibe system please visit: <https://www.ghsp.com/evibe>

About Allegro MicroSystems

Allegro MicroSystems, Inc. is a leading global designer, developer, fabless manufacturer and marketer of sensor integrated circuits ("ICs") and application-specific analog power ICs enabling emerging technologies in the automotive and industrial markets. Allegro's diverse product portfolio provides efficient and reliable solutions for the electrification of vehicles, automotive ADAS safety features, automation for Industry 4.0 and power-saving technologies for data centers and clean energy applications. For additional information, please visit <https://www.allegromicro.com/en/>.

About GHSP

GHSP is a privately owned company based in Grand Haven, Mich., that specializes in the design and manufacturing of innovative control systems and technology solutions primarily for the automobile and high-end appliance industries. Founded in 1924, GHSP has locations in North America, Europe and Asia. GHSP is a portfolio business within JSJ Corporation, a growth firm with global manufacturing, distribution and service businesses that focus on highly technical skills to deliver engineered solutions. Learn more at [GHSP.com](https://www.ghsp.com) and [JSJcorp.com](https://www.jsjcorp.com).

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