

New Product Announcement

GaN Systems' GS-EVB-AUD-xx1-GS Audio Eval Boards, Now at Mouser, Deliver High-Performance, Low-Cost Audio System

June 24, 2020 – [Mouser Electronics](https://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the new [GS-EVB-AUD-xx1-GS](#) audio EVB platform from [GaN Systems](#). The highly efficient evaluation platform features a Class D amplifier and companion power supply optimized for sound quality, thermal performance, cost, and size. Together, the boards provide an exceptional reference design for the development of a low-cost, high-performance [audio](#) system.

The [GaN Systems GS-EVB-AUD-xx1-GS](#) platform, available from Mouser Electronics, is available as a Class D amplifier board only (GS-EVB-AUD-AMP1-GS) or bundled with a switch-mode power supply (SMPS) board (GS-EVB-AUD-BUNDLE1-GS). The audio evaluation platform delivers outstanding sound quality through increased bandwidth and reduced total harmonic distortion. The integrated Class D amplifier features a two-channel, stand-alone, bridge-tied-load design with support for extendibility and scalability. The versatile amplifier is capable of switching between open-loop and closed-loop designs with optimized DSP control of each configuration. The Class D amplifier features an output power of 75 W to 250 W, while the companion SMPS offers an output power of 400 W and is scalable to 500 W. The SMPS also features a split rail output and incorporates an EMI/EMC filter.

Both the Class D amplifier and the SMPS boards include GaN Systems' enhancement-mode high electron mobility transistors (E-HEMTs). The E-HEMTs incorporate GaN Systems' Island Technology® cell layout to reduce both the device size and cost, while delivering substantially higher current and better performance than other GaN devices. The GaN Systems [GS61008P](#), implemented in the Class D amplifier, is a bottom-side-cooled 100 V, 90 A E-HEMT that can be easily driven directly from a variety of GaN drivers. The GaN Systems [GS66506T](#), implemented in the SMPS, is a top-side cooled 650 V, 22.5 A E-HEMT that is easy to drive from standard PFC and LLC controllers. Both transistors offer fast switching, zero reverse recovery charge, and low output capacitance.

To learn more about the GaN Systems GS-EVB-AUD-xx1-GS Audio EVB Platform, visit <https://www.mouser.com/new/gan-systems/gan-sys-gs-evb-aud-xx1-gs-audio-evb/>.

As an authorized distributor, Mouser Electronics is focused on the rapid introduction of new products and technologies, giving customers an edge and helping speed time to market. Over 800 semiconductor and electronic component manufacturers count on Mouser to help them introduce their products into the global marketplace. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each manufacturer.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 countries/territories from its 1 million sq. ft. state-of-the-art facilities south of Dallas, Texas. For more information, visit www.mouser.com.

About GaN Systems

GaN Systems provides a range of Gallium Nitride high power transistors for consumer, datacenter, industrial and transportation power conversion applications. Featuring exceptionally low on-resistance and negligible charge storage, these devices enable switching efficiencies well in excess of current silicon based solutions and offer dramatic benefits to switching power supply designs, inverters, hybrid and electric vehicles, battery management and power factor correction.

Trademarks

Mouser and Mouser Electronics are registered trademarks of Mouser Electronics, Inc. All other products, logos, and company names mentioned herein may be trademarks of their respective owners.

– 30 –

Further information, contact:
Kevin Hess, Mouser Electronics
Senior Vice President of Marketing
(817) 804-3833
Kevin.Hess@mouser.com

For press inquiries, contact:
Kelly DeGarmo, Mouser Electronics
Manager, Corporate Communications and Media Relations
(817) 804-7764
Kelly.DeGarmo@mouser.com