



TRANSFORMING THE WORLD

WITH SMALLER, LOWER COST, MORE
EFFICIENT POWER ELECTRONICS

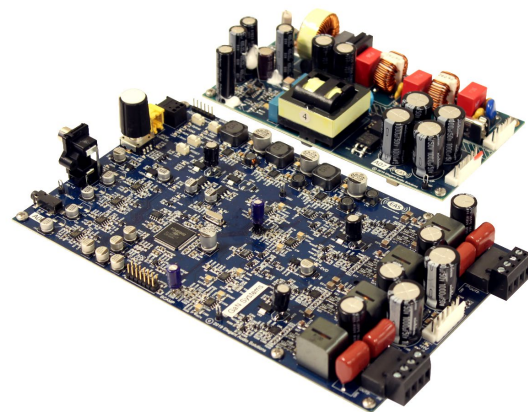
GS-EVB-AUD-BUNDLE1-GS

GS-EVB-AUD-AMP1-GS

GS-EVB-AUD-SMPS1-GS

GS-EVB-AUD-xxx1-GS

GaN Class D Audio



GS-EVB-AUD-XXX1-GS

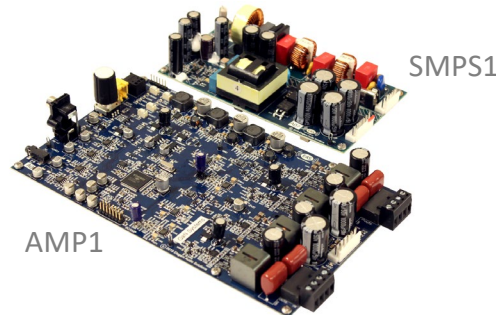
Class D Audio EVBs

Class D Amplifier

- 75-250W, scalable to 500W
- 2-channel, stand-alone design, with evident support for scalability and expandability
- Bridge-Tied-Load (BTL) design
- Includes the ability to switch between Open-Loop and Closed-Loop designs with optimized DSP control of each configuration

Companion SMPS

- 75-250W, scalable to 500W
- Split output for Audio
- Targeting >90% efficiency (Si at 85%)
- EMI/EMC friendly
- No heatsinking, no cooling



BUNDLE1 = AMP1 + SMPS1

GS-EVB-AUD-xxx1-GS

Class D Audio Evaluation Boards



MPN	Description	DBP (USD)	SRP (USD)	Availability
GS-EVB-AUD-BUNDLE1-GS	Class D Audio Amp + Switch Mode Power Supply (GS-EVB-AUD-AMP1-GS + GS-EVB-AUD-SMPS1-GS)	\$800	\$940	April 2020 **
GS-EVB-AUD-AMP1-GS	Class D Audio Amp, 2 ch, BTL, 200W/ch 8 Ω , 300W/ch 4 Ω	\$585	\$750	April 2020 **
GS-EVB-AUD-SMPS1-GS	PFC/LLC SMPS, split rail o/p, 400W continuous, 550W pk	CF *	CF *	NOTE *

These items are NCNR

* CF = Contact Factory.

We do not expect demand for the SMPS1 without the AMP1. If customers do request the SMPS1 alone, please contact GaN Systems.

** Available April for initial stocking orders. Subsequent orders will have leadtime of 20 weeks

EVALUATION BOARDS: GS-EVB-AUD-xxx1-GS

GaN E-HEMT fast switching, low Coss, and zero Qrr enables a new level of performance for Class D Audio amplifiers. This GaN-based EVB platform provides an excellent reference design for implementing a high performance, low cost audio system. The Class D amplifier and companion power supply are optimized for sound quality, thermal performance, size, and cost.

Features and Benefits

- Superior sound quality through reduced THD and increased bandwidth
- High efficiency due to lower transistor switching and conduction losses
- Reduced size and weight from high switching frequencies
- Low cost implementation through simplified design
- Low EMI/EMC due to high performance switching
- 2 channel, BTL amplifier designed for configurability and scalability
- Scalable 75-500W companion split rail PSU optimized for use with Amplifier

GaN Class D audio amplifier (Amp)

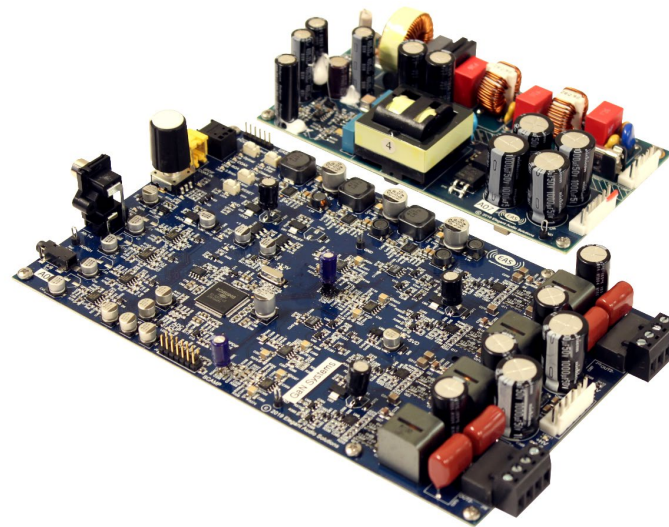
GS-EVB-AUD-AMP1-GS

Companion switch mode power supply (SMPS)

GS-EVB-AUD-SMPS1-GS

Bundle: Amp + SMPS

GS-EVB-AUD-BUNDLE1-GS



Download:

[User's Guide](#)