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GaN Boost Converter Product Brief

210W Audio Boost Converter - GS-EVB-AUD-BOOST1-GS

Automotive/Marine Boost Power Supply w/Remote

Complete Audio Boost Converter Solution

- Wide-Range DC Supply Voltage Input
 - o 9VDC to 16VDC Operation
 - Load Dump Compatible
- GaN Systems GS61008P GaN Power Devices
- Differential-Primary-Drive Transformer Topology
- Easy Integration w/ Companion GaN Amplifier Solution

High-Performance Audio Reference

- 210W Continuous Duty
- 300W Peak Power
- +/-26VDC Dual-Rail Output

Graceful Protection and Auto Recovery

- Complete Non-Intrusive Short-Circuit, Thermal and Over-Current Protection
- Over-Voltage and Under-Voltage Protection
- External Sync Capability
- Graceful Handling of Complex and Lower Impedance Loads

Complete Boost Converter System Design

The GaN Systems High-Voltage Boost Converter Reference Design is a 210-watt continuous/300-watt peak power source for manufacturers of stand-alone Mono, Stereo and Multi-Channel Automotive or Marine Amplifiers. The 210W SMPS is developed around the next-generation EZDrive technology and the latest GaN Power Device technology. This next-generation technology is combined with ample 'bulk' capacitance for uncompromised audio quality and sound.

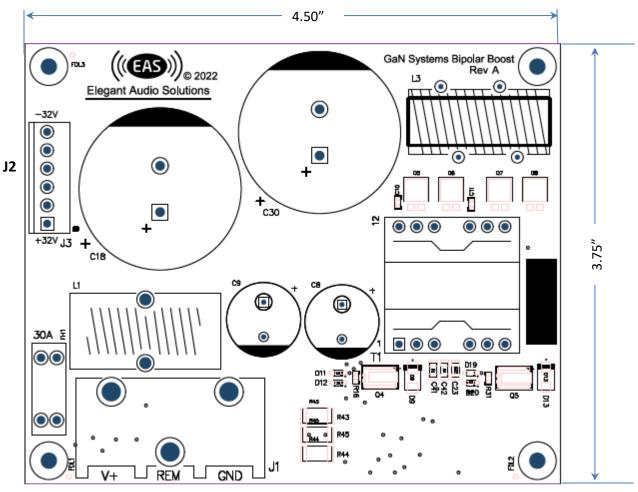


GaN Systems 210W 'Boost' Power Supply

- Complete Stand-alone Dual-Rail Boost Converter
- +/- 26VDC Dual-Rail Output
- 210W Continuous Duty (@14.4VDC Input)
- 300W Peak Power
- Wide Range DC Supply Voltage Input
 - o 9VDC to 16VDC Operation
 - Load Dump Compatible
- Integrated Remote Power-On 'Enable'
- Modified EZDrive Gate Drive Design
- Dual-GaN Transformer-Coupled Topology



1. CONNECTIVITY





Connector: J2 (Mating JST Connector: VHR-6N; Pin: SVH-41T-P1.1)

Pin	Туре	Description		
1	Output	+HVDC Supply Rail		
2	Output	+HVDC Supply Rail		
3	Output	HVDC Ground		
4	Output	HDDC Ground		
5	Output	-HVDC Supply Rail		
6	Output	-HVDC Supply Rail		

Connector: J1 (Mating JST Connector: VHR-6N; Pin: SVH-41T-P1.1)

Pin	Туре	Description		
1	Input	+12VDC Power Input		
2	Input	Remote "Enable"		
3	Input	Power Supply Ground		

ELECTRICAL PERFORMANCE DATA

General Performance Data

Parameter	Min	Typical	Max	Units	Comments
Output Voltage		2 x 26		VDC	Connector J2
Output Short-Circuit Current	-	12		Α	