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Infineon Technologies AG

81726 Munich, Germany

[www.infineon.com](http://www.infineon.com)



# 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
  - 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.



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

Pin	Type	Description
1	Output	+HVDC Supply Rail
2	Output	+HVDC Supply Rail
3	Output	HVDC Ground
4	Output	HDCC Ground
5	Output	-HVDC Supply Rail
6	Output	-HVDC Supply Rail

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

Pin	Type	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		A	