

DDFA®: CSRA6600™ & CSRA6601™

Description

This DDFA® chipset combines with precision output stages to provide all the control functions for high quality, high power, digital input class D switching amplifiers.

The CSRA6600 & CSRA6601 provide a scalable amplifier architecture with typical power levels from 25W to 100W. The chipset approach also allows performance level options to be selected. Up to 8 amplifier channels can be configured from each CSRA6601, with single ended or BTL connection available. Channels not used as amplifiers can be configured as high performance DAC outputs to drive headphones or subwoofers. Digital inputs are supported with sample rate up to 192kHz through 4 independent ports. Per channel DSP provides flexible mixing and mapping, EQ and delay. The EQ facilities enabling digital crossover implementation and speaker impedance compensation as well as parametric EQ.

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Demo: [aptX® and DDFA® for quality Bluetooth® streaming audio system](#)

Benefits

- Complete audio platform solutions provide a quick and easy route to product development
- Scalable design can be used across several models in a range
- DDFA offers an improved audio performance at the product price point
- High efficiency Class D architecture results in smaller PSUs
- Feedback technology enables the use of unregulated supplies
- Digital input compatible with popular sources means no need for input DAC

Product Details

- CSRA6601: 8 channel digital modulator. I2S digital audio inputs, mixing and multiplexing, parametric EQ, limiting and compression volume control, integrated protection, SPI digital control.
- CSRA6600: 4 channel Analogue Feedback Processor (AFP).
- Targeted amplifier designs: Options in channel count, power and configuration matching application needs. DAC and digital outputs facilitate wired and wireless connection for subwoofers and headphones

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Key Features

- Outstanding sound quality
- Typical power levels from 25W to 100W into 8Ω
- THD+N 0.004%
- Dynamic range 120dB
- Residual output noise <60µVrms
- High efficiency Class D architecture
- Compatible with digital sources
- On chip DSP resources
- Platform solutions with CSR wireless and DSP products