

Fig.1: 2 Channel Input, 6 Channel Output Digital Audio Processor based on ADAU1701

- Uses PCM510X for 2 additional output channels
- On board 3.3V linear power supply
- Onboard 5V/9V isolated power supply for USB/Bluetooth/FM player

Interfaces with reference to Fig.1:

A: Transformer secondary: 0-7V for 3.3V regulator, 0-10V for 5V/9V regulator

B: Media player interface with power switch

C: Front panel interface (4 x DC controlled potentiometers, status LED, Optional Universal Learning IR Receiver)

D: Digital audio processor programming interface

E: Mode selection (Stereo/ Surround) front panel switch

F: Interface to 2 x 3 channel amplifiers with relay supply

G: Interface to Back Panel (2 x Stereo RCA connectors- Line inputs, 1 x Mono RCA connector- SPDIF Co-axial input, SPDIF Optical connector, Berg jumper switch- SPDIF Optical/ Co-axial)

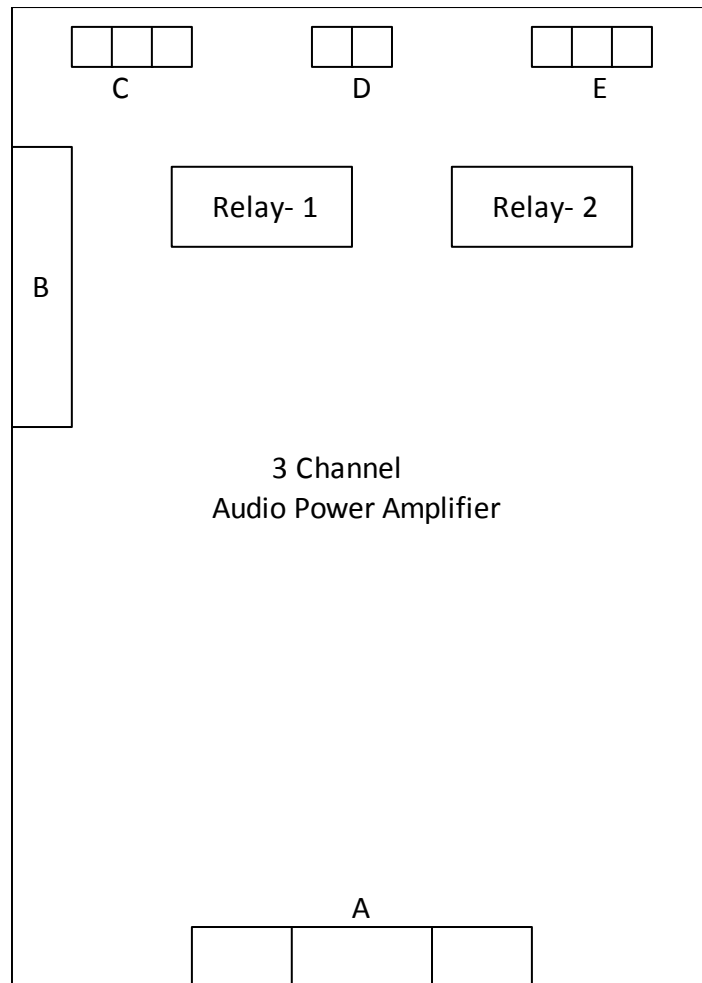


Fig.2: 3 Channel Audio Power Amplifier with Linear Power Supply Based on LM1875

- Uses 3 x LM1875 on a single heatsink
- Onboard Fullwave rectifier with Ultrafast diodes
- Onboard bulk caps ensuring at least 1000uF for 1A output current
- Onboard DPDT relays for switching channel 1 and 3 inputs & speaker outputs based on mode selection switch

Interfaces with reference to Fig.2:

A: Transformer Secondary: 14V – 0 – 14V

B: Interface with Digital Audio Processor with Relay power supply

C: Connections for loudspeaker connector for channel 1A, Ground, 1B

D: Connections for loudspeaker connector for channel 2, Ground

E: Connections for loudspeaker connector for channel 2A, Ground, 2B