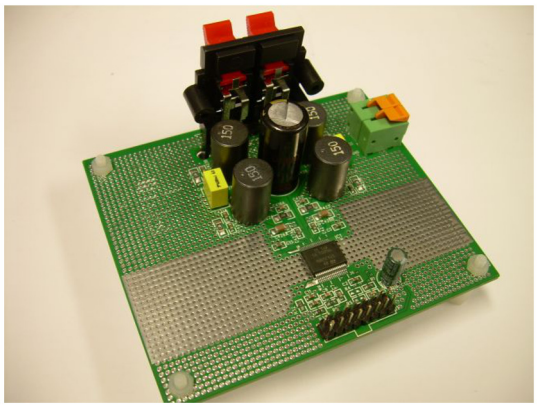
STEVAL-CCA030V1

STA350BW Sound Terminal™ 2.1-channel high-efficiency digital audio system board

Data brief

Features

- 2 channels of ternary PWM 2x50 W @ 6 Ω, 25 V
- 5 V to 26 V operating supply voltage range
- FFX® 100 dB SNR and dynamic range
- Selectable 32 to 192 kHz input sample rates
- I^2C control with selectable device address
- Digital gain/attenuation +42 dB to -80 dB with 0.125 dB/step resolution
- Individual channel and master gain/attenuation
- Audio presets:
  - 15 preset crossover filters
  - 5 preset anti-clipping modes
  - Preset night-time listening mode
- I^2S input data interface
- Up to 8 user-programmable biquads per channel
- 3 coefficient banks for EQ preset storing with fast recall via I^2C interface
- Selectable high-pass filter for DC blocking
- RoHS compliant



STEVAL-CCA030V1

Description

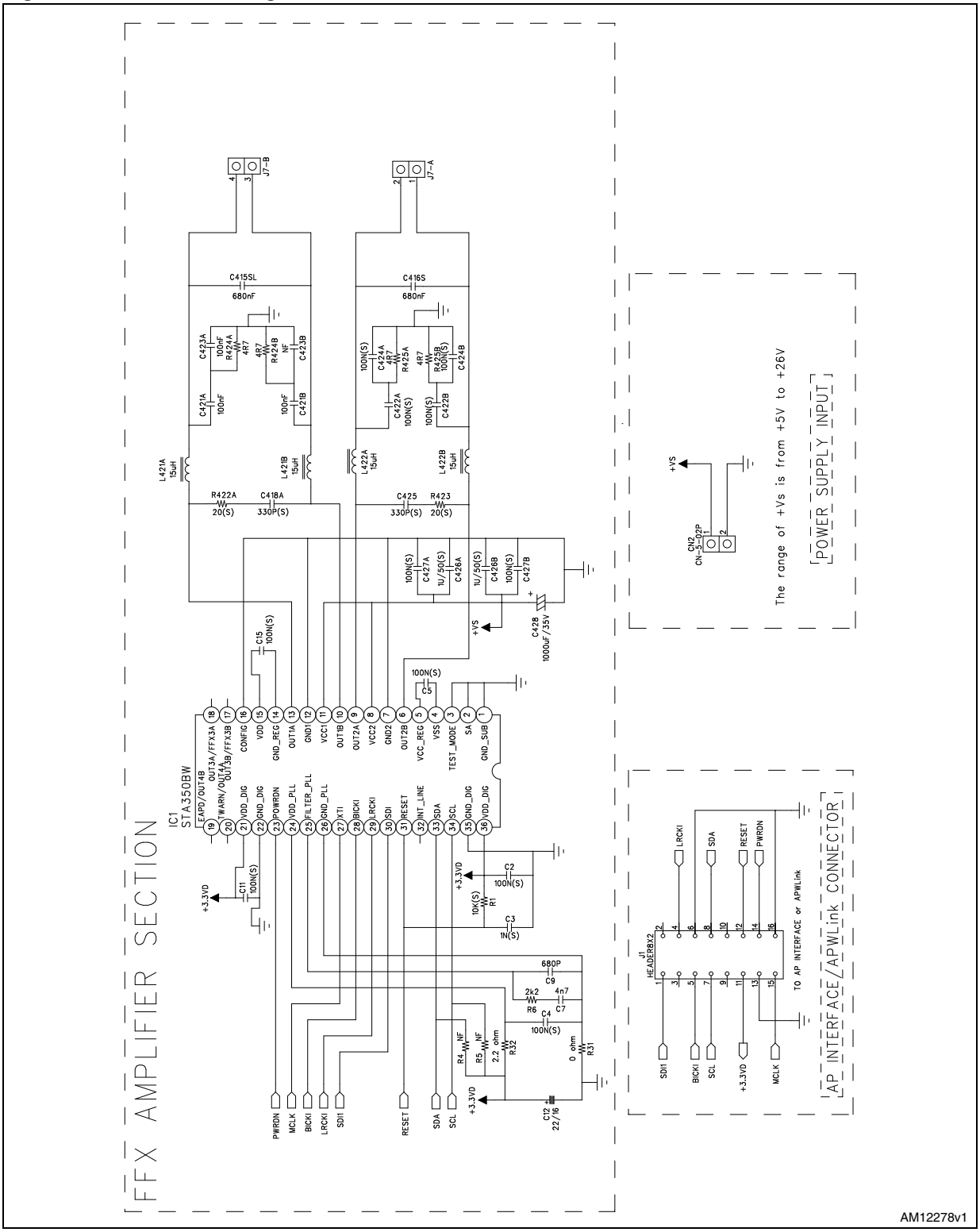
The STEVAL-CCA030V1 demonstration board is based on the STA350BW Sound Terminal digital amplifier and is an integrated solution for digital audio processing, digital amplifier control and FFX®-power output stage.

The STEVAL-CCA030V1 is made up of two boards: STA350BW to evaluate the device and APWLink (STEVAL- CCA035V1) used as I^2S and I^2C interface. To use this board it is mandatory to use the APWorkbench software tool.

For further information contact your local STMicroelectronics sales office. www.st.com

1 Schematic diagram

Figure 1. Schematic diagram



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
28-May-2012	1	Initial release.

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