

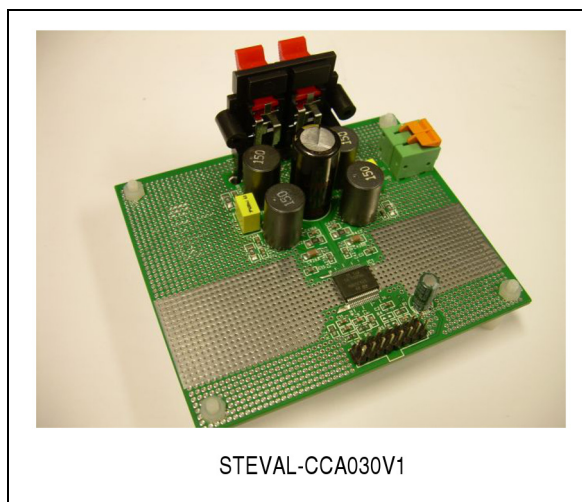


## STA350BW Sound Terminal™ 2.1-channel high-efficiency digital audio system board

Data brief

### Features

- 2 channels of ternary PWM 2x50 W @ 6  $\Omega$ , 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<sup>2</sup>C 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<sup>2</sup>S input data interface
- Up to 8 user-programmable biquads per channel
- 3 coefficient banks for EQ preset storing with fast recall via I<sup>2</sup>C interface
- Selectable high-pass filter for DC blocking
- RoHS compliant



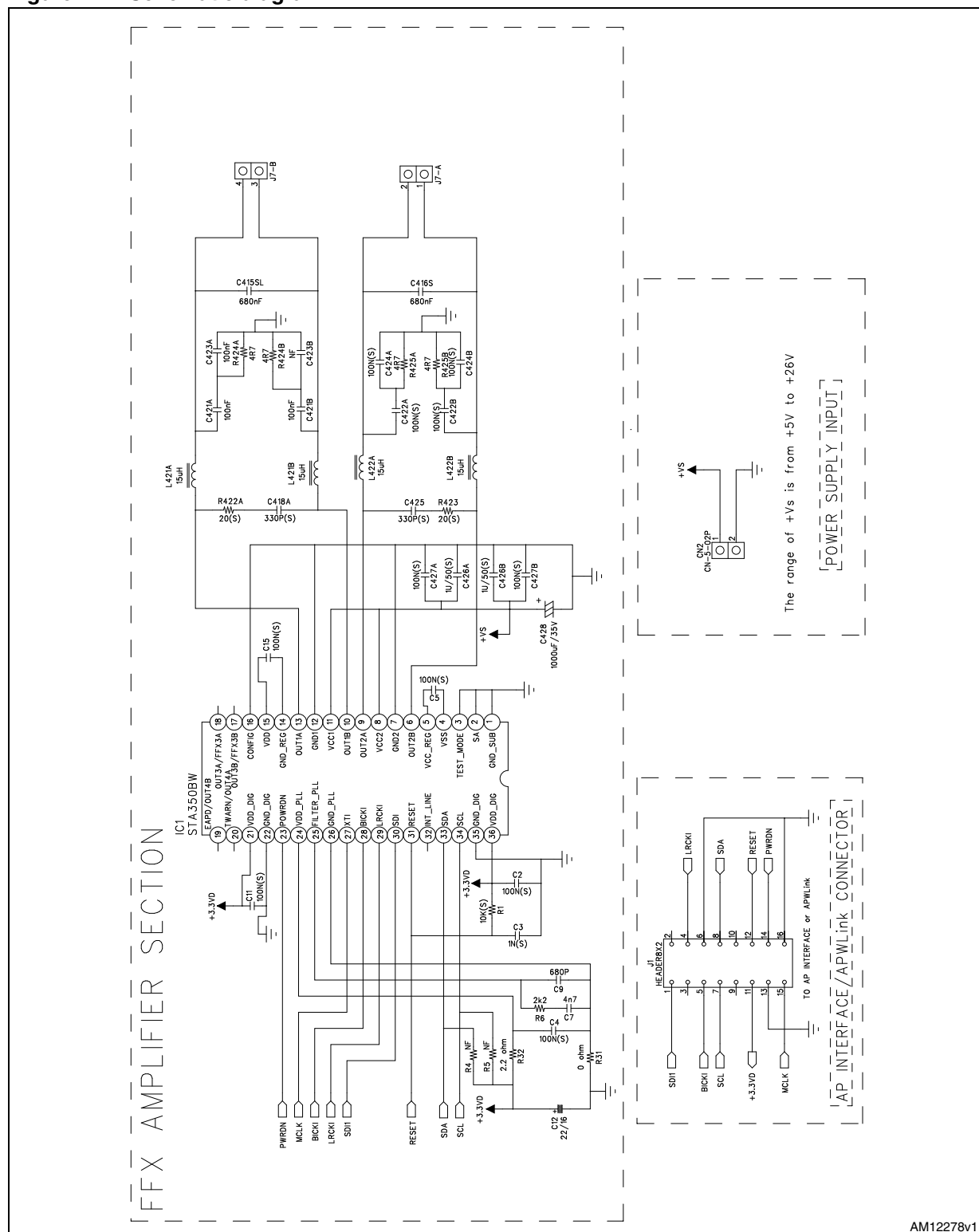
STEVAL-CCA030V1

### 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<sup>2</sup>S and I<sup>2</sup>C interface. To use this board it is mandatory to use the APWorkbench software tool.

**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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