

Data brief

Features

- High output-power capability:
 - 4x10 W / 4 Ω at 17 V, 1 KHz, THD = 10%
 - 2x26 W / 4 Ω at 14.4 V, 1 KHz, THD = 10%
 - 2x15 W / 8 Ω at 16 V, 1 KHz, THD = 10%
 - 2x8 W / 4 Ω + 1x16 W/8 Ω at 16 V, 1 KHz, THD = 10%
- Minimum external component count:
 - No bootstrap capacitors
 - No Boucherot cells
 - Internally fixed gain of 20 dB
- Standby function (CMOS compatible)
- No audible pop during standby operations
- Diagnostic facilities:
 - Clip detector
 - Out to GND short-circuit
 - Out to Vs short-circuit
 - Thermal shutdown proximity
- Protection against:
 - Output AC/DC short-circuit
 - Soft short-circuit at turn-on
- RoHS compliant

Description

The STEVAL-CCA040V1 demonstration board is designed using the STA540SAN dual/quad class AB power amplifier assembled in a Clipwatt 15 package.

Thanks to the high flexibility offered by the STA540SAN device, it is possible to configure the board to realize a stereo dual bridge (BTL) amplifier, a four channel single-ended (SE) amplifier or a 2.1 channel amplifier composed of a stereo BTL + mono BTL amplifier.

For further information contact your local STMicroelectronics sales office.



January 2013

1 Circuit diagrams

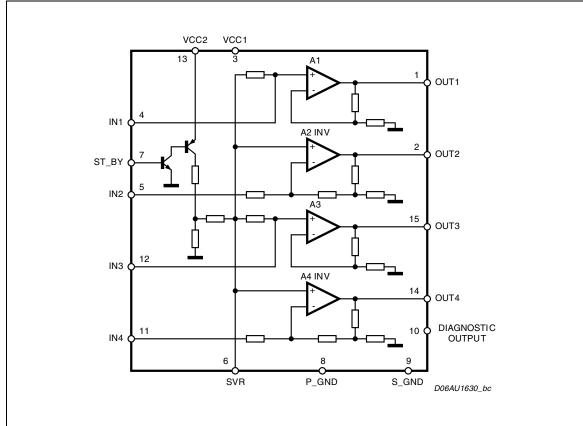
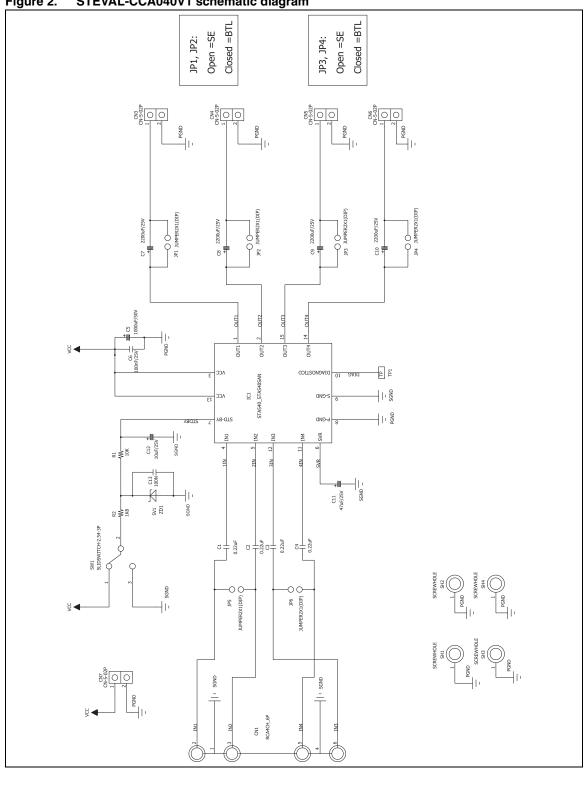


Figure 1. STEVAL-CCA040V1 block diagram



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STEVAL-CCA040V1 schematic diagram Figure 2.

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2 Revision history

Table 1.Document revision history

Date	Revision	Changes
09-Jan-2013	1	Initial release.



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