Stereo PDM-to-I²S or TDM Conversion IC

Data Sheet

ADAU7002

FEATURES

- 64× decimation of a stereo pulse density modulation (PDM) bit stream to pulse code modulation (PCM) audio data
- Slave I²S or time division multiplexed (TDM) output interface
- Configurable TDM slots
- I/O supply operation: 1.62 V to 3.6 V
- 64× output sample rate PDM clock
- 64×/128×/192×/256×/384×/512× output sample rate BCLK
- Automatic BCLK ratio detection
- Output sample rate: 4 kHz to 96 kHz
- Automatic PDM CLK drive at 64× the sample rate
- Automatic power down with BCLK removal
- 0.67 mA operating current at 48 kHz and 1.8 V IOVDD supply
- Shutdown current: <1 µA
- 8-ball, 1.56 mm × 0.76 mm, 0.4 mm pitch WLCSP
- Power-on reset

APPLICATIONS

- Mobile computing
- Portable electronics
- Consumer electronics

GENERAL DESCRIPTION

The ADAU7002 converts a stereo PDM bit stream into a PCM output. The source for the PDM data can be two microphones or other PDM sources. The PCM audio data is output on a serial audio interface port in either I²S or TDM format.

The ADAU7002 is specified over the commercial temperature range (−40°C to +85°C). It is available in a halide-free, 8-ball, 1.56 mm × 0.76 mm, wafer level chip scale package (WLCSP).

FUNCTIONAL BLOCK DIAGRAM

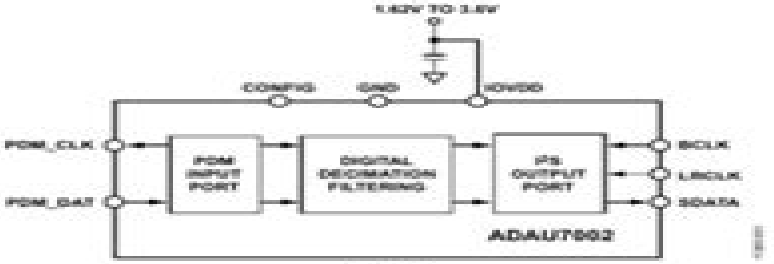

Figure 1.

Rev. A

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