





## CX20707 Features

### CODEC

- 5-wire digital audio I/O (I2S/PCM/SPDIF), supporting full-duplex independent sampling rates
- One 2-wire I<sup>2</sup>C or 4-wire SPI slave interface for external MCU
- UART interface
- Eight GPIO pins
- 2.5 W BTL mono Class-D Speaker Amplifier
- Mono PWM output for external feedback-less type Class-D amplifier
- Single-ended or differential mono analog audio input
- Mono microphone interfaces with on-chip bias supply
- Integrated 50 mW headphone driver with jack sense
- Single-ended or differential line out
- 24-bit DAC/ADC, SNR 102 dB, THD - 92 dB at 48 kHz 3.3 V
- Audio sample rate: 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 64, 88.2, 96 kHz
- 90 dB dynamic range with 0.01percent THD+N at 4 Ω load
- Spread Spectrum for filter-less, low EMI output

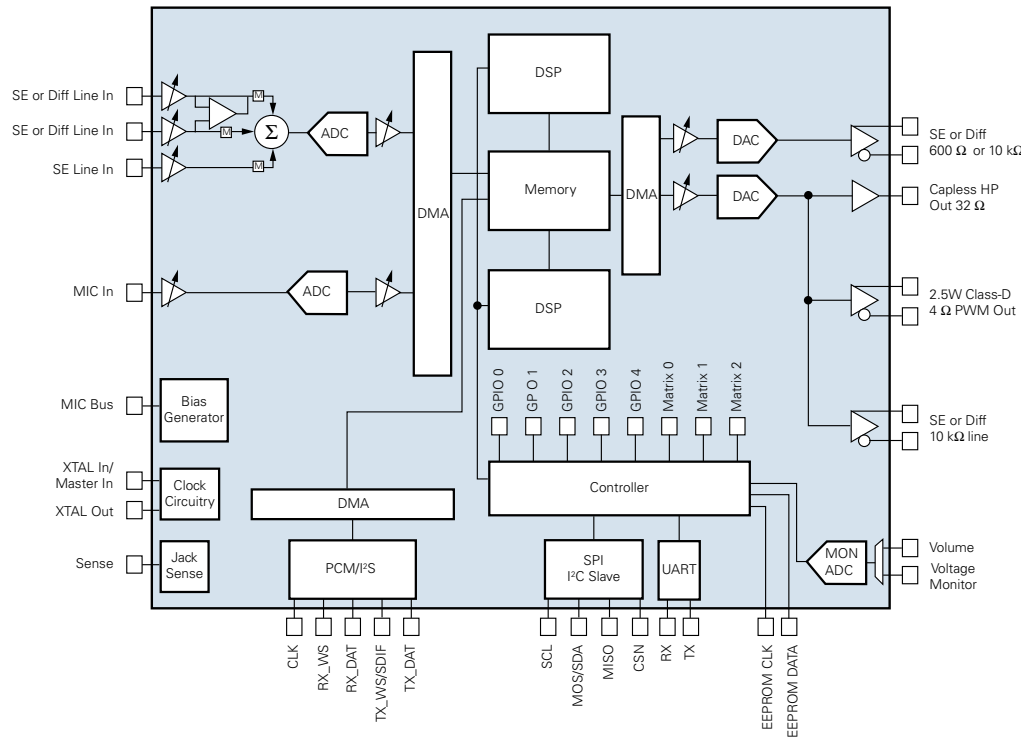
- 10-bit ADC multiplexed to support analog volume potentiometer and DC level detection
- Flexible power management
- Variable master clock rates

### DSP

- Subband acoustic echo suppression and cancellation
- Noise reduction for inbound speech (far end) and outbound speech (near end)
- Dynamic loudness adaptor
- Mic auto gain control
- Digital parametric equalizer (10 bands/channel)
- Dynamic range compression

### SPoC Configuration Toolbox

- Fast configuration tool via USB-to-I<sup>2</sup>C from PC
- Device configuration and DSP parameter adjustment
- Output log for convenient MCU programming



### CX20707 Interface Diagram

The CX20707 is offered in a 76-pin QFN package

### Conexant Product Portfolio

Conexant's comprehensive product portfolio includes solutions for imaging, audio, embedded modem and video surveillance applications.

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