





## CX20706 Features

### CODEC

- Compliant Microsoft Office Communicator peripheral requirement
- Pass TIA-920 test requirement
- USB 2.0 Compliant Audio Class interface
- UART interface for external MCU
- Eight GPIO pins
- 2.5 W BTL Mono Class-D speaker amplifier
- PWM output for external feedback-less type Class-D amplifier
- Single-ended or differential stereo analog audio input
- Two microphones 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

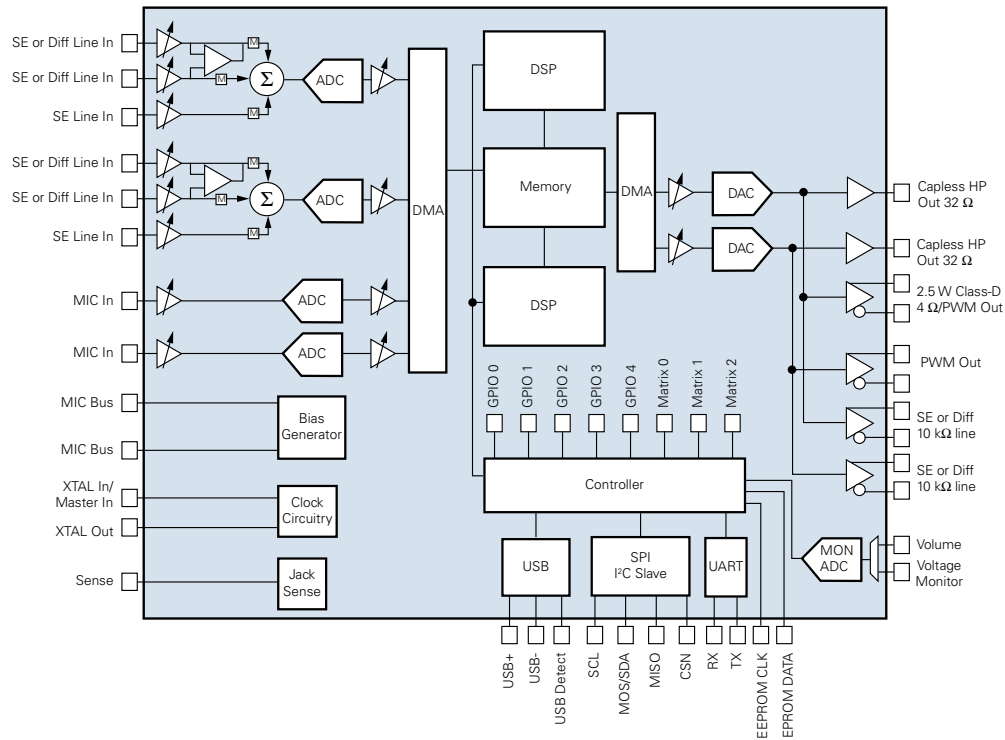
- 10-bit ADC multiplexed to support analog volume potentiometer and DC level detection
- Flexible power management
- Variable master clock rates

### DSP

- Subband acoustic echo suppression and cancellation
- Stereo beam-forming
- 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



**CX20706 Interface Diagram**  
The CX20706 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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