



USB/²S Audio CODEC, Audio/Voice DSP, Stereo Class-D, Headphone Driver

The device integrates three high-performance 102 dB SNR, 24-bit DACs for 2.1CH speaker output, capless headphone output, and single-ended/differential line-output. The analog input paths feature four high performance, 24-bit ADC supporting up to four microphones or three stereo Line-Inputs. Different audio sampling rates ranging from 8 kHz to 96 kHz are generated directly from the master clock without the need for external PLL. The power-efficient integrated Class-D stereo amplifier operates at 5 V or 3.3 V with an optional maximum power of 2.8 W at a 4 Ω load. For intercom application, the mono line-out supports 600 Ω drivers, which can drive the isolation transformer directly without an external operational amplifier.

The CX20709 operates at supply voltages down to 3.3 V for analog and 1.8 V for the digital core. An advanced power management scheme can be configured to achieve <7.55 mW in sleep mode.

- ◆ PC Speakers System
- ◆ LCD Display/SoundBar
- ◆ Home Automation/Intercom
- ◆ PND/PMP
- ◆ Multi Media IP Phone
- ◆ Telepresence/Unified Communication Device
- ◆ Embedded Applications

Ordering Number	Part Number	Package	Description
DSAC-L709-21CH	CX20709-21Z	76QFN	
DSAC-L709-12CH	CX20709-12Z	76QFN	Not recommended for new design
CX20709-EVK2	CX20709-EVK2		CX20709-21Z Evaluation Kit
CX20709-EVK2-IN	CX20709-EVK2-IN		CX20709-21Z Intercom Daughter Board
All devices are lead-free (Pb Free) and RoHS compliant			

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