

WM8281

Low Power Smart Codec with Ambient Noise Cancellation and Echo Cancellation

The WM8281 is a highly integrated low-power audio system that combines an advanced DSP feature set with a flexible, high-performance Codec. The programmable DSP cores support advanced audio features, including multi-mic wideband noise reduction, high-performance acoustic echo cancellation (AEC), stereo ambient noise cancellation (ANC), speech enhancement, advanced media enhancement, and many more.

Features

- 600 MIPS, 600MMC multi-core audio-signal processor
- Programmable wideband, multi-mic audio processing
- Multi-channel asynchronous sample rate conversion
- Integrated 6/8 channel 24-bit Hi-Fi audio codec
- Analog and digital microphone inputs
- Multi-purpose headphone / earpiece / line output drivers
- Stereo Class-D speaker output drivers
- Four-channel digital speaker (PDM) interface
- SLIMbus audio and control interface
- 3 full digital audio interfaces
- Flexible clocking interface
- Advanced accessory detection feature
- Configurable functions on GPIO pins
- Integrated LDO regulators and charge pumps
- Small WLCSP package, 0.4mm pitch