



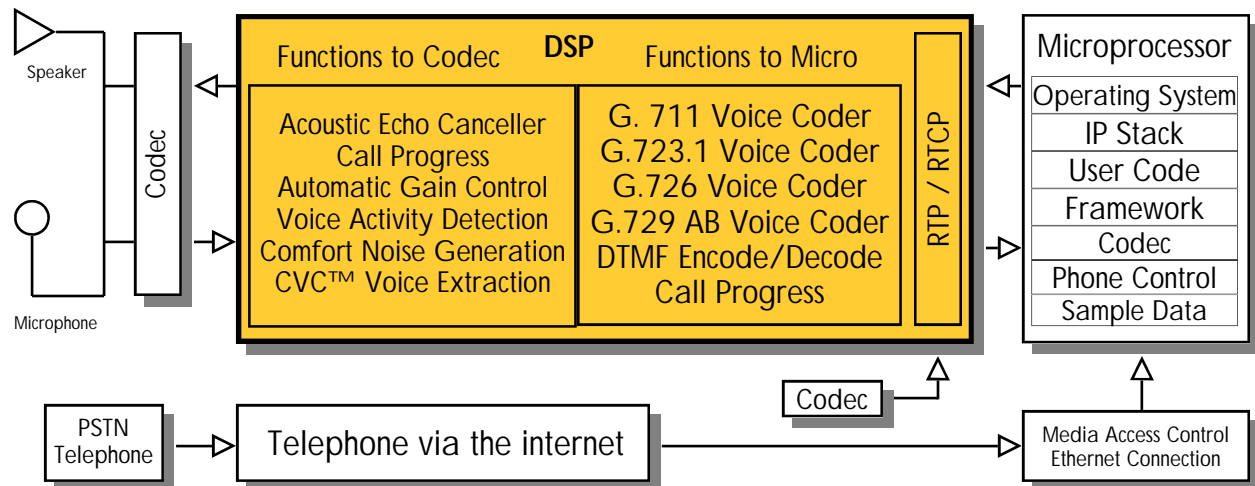
DSP IP SpeakerPhone™ Solution

Product Part Number 2-0002-01

imagine
TECHNOLOGY, LLC™

Powered by Imagination

Imagine Technology's voice-over-packet DSP IP SpeakerPhone™ Solution can process multiple channels of full-duplex digital voice that flow to and from a packet-based network utilizing Imagine's Echo Suppression Technology (EST™). In a two-way voice channel several signal processing blocks are needed, including echo cancellation, voice codecs, tone generation/detection and voice activity detection. The user must configure and control each of the signal processing components that are running across all of the channels. All two-way voice-channel features need to run in a scalable multi-channel framework, which can be provided by Imagine Technology. One key requirement is to run different codecs and independently report detection events and generate tones on independent channels.



Echo/Noise Cancellation	Voice Codecs	Voice & Tone Detection
EST™ Acoustic Echo Canceller	G.711 Encode/Decode	Call Progress
G.165 Echo Canceller	G.723.1 Encode/Decode	DTMF
G.168 Echo Canceller	G.726 Encode/Decode	Voice Activity Detection
Voice Extraction with CVC™	G.729 AB Encode/Decode	Audio Gain Control
Comfort Noise Generation		Caller ID

Contact Imagine Technology for integrated DSP solutions, framework, hardware design options and embedded demos for all available DSP algorithms.

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