

 <div style="float: right; font-size: 24pt; font-weight: bold; margin-top: -20px;">AK4632</div> <div style="clear: both; text-align: center; font-weight: bold; font-size: 18pt;">16-Bit $\Delta\Sigma$ Mono CODEC with ALC & MIC/SPK/Video-AMP</div>

GENERAL DESCRIPTION

The AK4632 is a 16-bit mono CODEC with Microphone-Amplifier, Speaker-Amplifier and Video-Amplifier. Input circuits include a Microphone-Amplifier and an ALC (Automatic Level Control) circuit. Output circuits include a Speaker-Amplifier and Mono Line Output. Video circuits include a LPF and Video-Amplifier. The AK4632 suits a moving picture of Digital Still Camera and etc. This speaker-Amplifier supports a Piezo Speaker. The AK4632 is housed in a space-saving 32-pin QFN package.

FEATURE

1. 16-Bit Delta-Sigma Mono CODEC
2. Recording Function
 - 1ch Mono Input
 - 1st MIC Amplifier: 0dB, 20dB, 26dB or 32dB
 - 2nd Amplifier with ALC: -8dB ~ +27.5dB, 0.5dB Step
 - ADC Performance: S/(N+D): 80dB, DR, S/N: 85dB
3. Playback Function
 - Digital Volume: +12dB ~ -115dB, 0.5dB Step, Mute
 - Mono Line Output Performance: S/(N+D): 85dB, S/N: 93dB
 - Mono Speaker-Amp
 - Speaker-Amp Performance: S/(N+D): 60dB, S/N: 90dB (150mW @ 8 Ω)
 - BTL Output
 - ALC (Automatic Level Control) Circuit
 - Output Power: 400mW @ 8 Ω , SVDD=3.3V
3.0Vrms @ SVDD=5V
 - Beep Input
4. Power Management
5. Video Function
 - A Composite Video Input
 - Gain Control (-1.0dB ~ +10.5dB, 0.5dB Step)
 - Low Pass Filter
 - A Video-Amp for Composite Video Signal(+6dB)
 - DC Direct Output or Sag Compensation Output
6. Flexible PLL Mode:
 - Frequencies:
 - 11.2896MHz, 12MHz, 12.288MHz, 13.5MHz, 24MHz, 27MHz (MCKI pin)
 - 1fs (FCK pin)
 - 16fs, 32fs or 64fs (BICK pin)
7. EXT Mode:
 - Frequencies: 256fs, 512fs or 1024fs (MCKI pin)
8. Sampling Rate:
 - PLL Slave Mode (FCK pin) : 7.35kHz ~ 26kHz
 - PLL Slave Mode (BICK pin) : 7.35kHz ~ 48kHz
 - PLL Slave Mode (MCKI pin):
 - 8kHz, 11.025kHz, 12kHz, 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz
 - PLL Master Mode:
 - 8kHz, 11.025kHz, 12kHz, 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz