

TEN CHANNEL HD AUDIO CODEC

92HD73E*PREMIUM WLP 3/4 COMPLIANT*

DESCRIPTION

The 92HD73E codec is a low power optimized, high fidelity, 10-channel audio codec compatible with Intel's High Definition (HD) Audio Interface. The 92HD73E codec provides stereo 24-bit resolution with sample rates up to 192kHz. Dual SPDIF provides connectivity to consumer electronic equipment that is WLP compliant. The 92HD73E provides high quality, HD Audio capability to multimedia notebook and desktop PC applications.

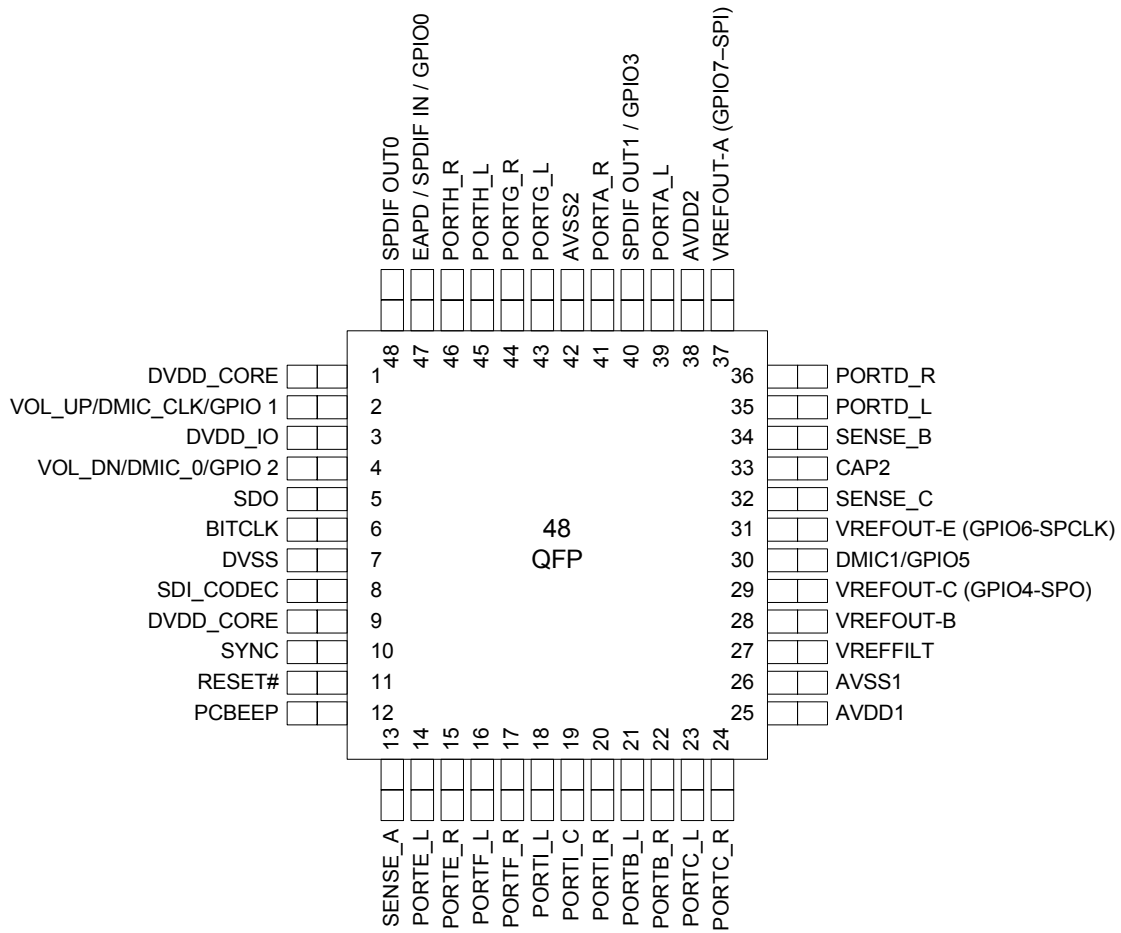
FEATURES

- **10 Channels (5 stereo DACs and 2 stereo ADCs) with 24-bit resolution**
 - ◆ Supports full-duplex 7.1 audio and simultaneous VoIP
- **Microsoft WLP 3/4 premium logo compliant, as defined in WLP 3.09**
- **Optimized and flexible power management with pop/click mitigation**
- **2 independent S/PDIF Output converters for WLP compliant HDMI/SPDIF support.**
- **Support for 1.5V and 3.3V HDA signaling with runtime selection**
- **Digital microphone input (mono, stereo, or quad array)**
- **4 adjustable VREF Out pins for microphone bias**
- **High performance analog mixer**
- **9 stereo analog ports with presence detect capability**
- **Two-pin volume up/down control**
- **Digital PC BEEP to all outputs**
- **Integrated headphone amps (3)**
- **Sample rates up to 192kHz**
- **+3.3 V, +4 V, +4.75 V and +5 V analog power supply options**
- **48-pin QFP RoHS package**

SOFTWARE SUPPORT

- **SKPI (Kernel Processing Interface)**
 - ◆ Enables plug-ins that can operate globally on all audio streams of the system
- **12 band fully parametric equalizer (SKPI plug-in)**
 - ◆ Constant, system-level effects tuned to optimize a particular platform can be combined with user-mode "presets" tailored for specific acoustical environments and applications
 - ◆ System-level effects automatically disabled when external audio connections made
- **Dynamics Processing (SKPI plug-in)**
 - ◆ Enables improved voice articulation
 - ◆ Compressor/limiter allows higher average noise level without resonances or damage to speakers.
- **IDT Vista APO wrapper**
 - ◆ Enables multiple APOs to be used with the IDT Driver
- **Microphone Beam Forming, Acoustic Echo Cancellation, and Noise Suppression**
- **Dynamic Stream Switching**
 - ◆ Improved multi-streaming user experience with less support calls
- **Dolby PC Entertainment Experience Logo Program**
 - ◆ Dolby Master Studio™ (MS)
 - ◆ Dolby Home Theater™ (HT)
 - ◆ Dolby Sound Room™ (SR)
- **Dolby Technologies**
 - ◆ Dolby Headphone™, Dolby Virtual Speaker™
 - ◆ Dolby ProLogic II™, Dolby ProLogic IIx™
 - ◆ Dolby Digital Live™ (DDL)
- **Maxx Player™ from Waves**
- **WOW™ and Tru Surround™ from SRS**

PIN OUT



PART NUMBER TABLE

92HD73E1X5PRGXyyX	10 channel, 5V, 48QFP
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NOTE: When ordering these parts the “yy” will be replaced with the CODEC revision. Add an “8” to the end for Tape and Reel delivery, minimum/multiple order quantity is 2,000 units.

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