

Atlantik Elektronik presents high performance 32-bit Stereo DAC AK4480

Optimized for Sound Quality

Planegg, October 15, 2009

Atlantik Elektronik GmbH presents the AK4480, a high performance 32-bit stereo DAC. It is the newest member of the AKM Audio4pro™ product family. Based on the high quality sound architecture of the AK4397 and AK4399, innovative products in the Audio4pro family, the AK4480 has an advanced architecture that enables higher quality sound for professional and high-end digital audio devices.

The AK4480 has three different digital filters: a 32-bit short delay filter which is suitable for acoustic sounds, a 32-bit sharp roll-off filter for traditional sounds, and a 32-bit slow roll-off filter for a soft sound expression. The 32-bit minimum delay and sharp roll-off filters can be controlled by pin settings in parallel control mode.

The 32-bit digital operation block provides full 32-bit processing for the audio interface, a perfect linear phase digital filter and an advanced delta-sigma modulator. High accuracy D/A conversion of 32-bit audio signals is performed, and an innovative design technique, a symmetrical layout for left-right channels is utilized.

The fully symmetrical layout of the analog block ensures that the signal from the digital block has the shortest path possible to the analog block to avoid noise coupling, improving sound quality.

PRESS RELEASE

The AK4480 is the first 32-bit DAC which has a digital block designed by sound quality aspects to achieve higher performance.

The AK4480 integrates a digital de-emphasis filter, soft mute circuit and digital attenuator. Left and right channel-independent zero detect functions are available.

Sampling rates range from 30kHz to 216kHz. The analog outputs are fully differential, achieving very low THD+N of -100dB and dynamic range or SNR of 114dB, and the operating voltage is 5V. The AK4480 supports 216kHz PCM audio data, and it is suitable for professional audio equipment.

Characters: 1,954 (with spaces)

About Atlantik Elektronik GmbH

Atlantik Elektronik is a company of the Atlantik Networxx Group. The company is marketer and design-in-specialist of innovative semiconductors and semiconductor solutions, specifically for High-End-Markets, and also provides engineering solutions and production capacities to customers. Atlantik is a trendscout for new developments and new technologies. The competences and the product portfolio of the company are in the field of Embedded Microcontroller, Wireless, Connectivity, Infotainment and System Solutions.

Competence Center Infotainment

Our Connectivity Competence Centre is all about connecting people through Embedded Ethernet and Wireless LAN technologies. Our portfolio includes wired serial-to-Ethernet and WLAN converters, for example. Some models are also available as programmable versions or bridging technologies.

Helping people communicate is about more than hardware. We take care of the software side too - with in-depth expertise and a broad portfolio of hardware drivers, operating systems, middleware and business applications.

For designs with host-controller-integrated network interfaces, Atlantik Elektronik offers switch components with and without transceiver, for various versions of Fast and Gigabit Ethernet. With the Ethernet connectors (both with and without integrated transmitter), we are a one-stop source for all the key elements of a connectivity design.

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