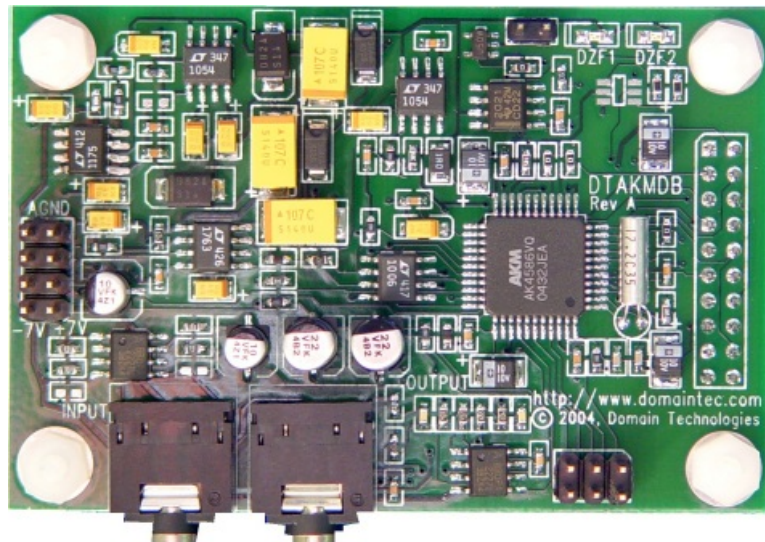


## DTAKMDB

Audio daughtercard for use with evaluation boards



- Dimensions: 3" x 2"
- AKM AK4586 CODEC on board
- Connects to evaluation boards via a 20-pin serial port
- 2 audio channels in
- 2 audio channels out
- Optional connectors provides 4 additional channels out for 6 channel output



Measuring 3 inches by 2 inches, DTAKMDB is designed to support audio input/output to an evaluation board. The on-board digital audio receiver may be controlled via a standard 20-pin serial port connected to an evaluation board.

The daughtercard is powered by a Asahi Kasei AKM AK4586 single-chip CODEC. Quoted from the AK4586 data sheet:

"The AK4586 is a single chip CODEC that includes two channels of ADC and six channels of DAC. The ADC outputs 24 bit data and the DAC accepts up to 24 bit input data. The ADC has the Enhanced Dual Bit architecture with wide dynamic range. The DAC introduces the new developed Advanced Multi-Bit architecture, and achieves wider dynamic range and lower outband noise. The AK4586 also has a digital audio receiver (DIR) compatible with 96 kHz, 24 bits. The AK4586 can automatically detect a non PCM bit stream.

The digital audio output can be selected from the ADC output or the digital input. Control may be set directly by programmed through a separate serial interface. The AK4586 has a dynamic range of 100 dB for ADC, 106 dB for DAC and is well suited for digital surround for home theater and car audio. The AK4586 also has the balance volume control corresponding to the AC3 system. The AK4586 is available in a small 44pin LQFP package which will reduce system space. "

For the daughtercard, 2 ADC channels and 2 DAC channels comes standard with every board. An optional connector provides four additional channels of DAC, allowing the daughtercard to fully support the 6-channel output of the AK4586. DTAKMDB is compatible with all evaluation boards that has a 20-pin serial port with a standard SPORT pin-out.

Price: USD 160.00

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