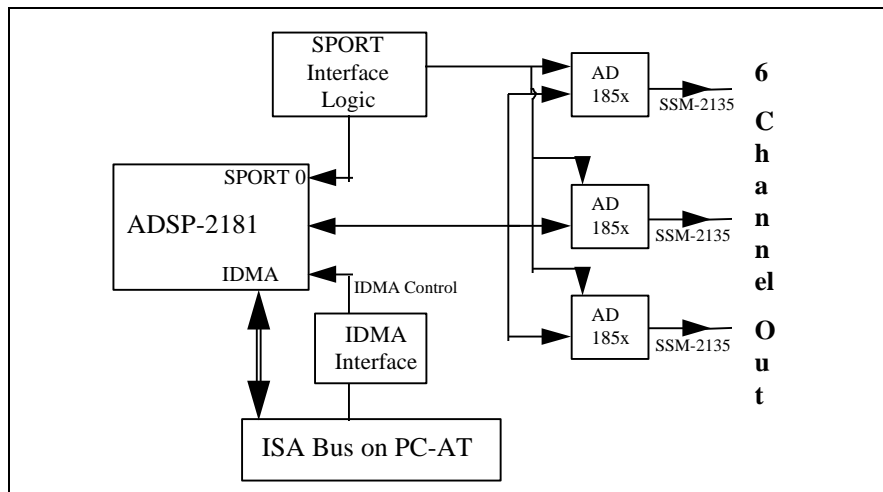# MPEG-II Audio Decode

Reference Design for Real-Time Multi-Channel Audio Decoding

HIGHLIGHTS

- Complete implementation of ISO / IEC 13818 - 3 MPEG-II Audio Standard
- Low-Frequency Effects (LFE) Channel Supported
- Phantom Coding of Centre
- Supports half-sampling frequencies
- Variable Bit Rates Supported
- Dynamic Crosstalk with multi-channel prediction
- Backward Compatibility with MPEG-I

Multi-Channel Decoder Block Diagram

Product Description

The MPEG-II real-time Audio Decode Software solution is implemented on a single Analog Devices ADSP- 2181 Digital Signal Processor. The solution fully implements the standard ISO / IEC 13818 - 3 Audio. The decoder supports half-sampling frequencies of 16KHz, 22.1 Khz and 24 Khz, in addition to the standard 32 Khz, 44.1 Khz and 48 KHz. The software is available in a library form and OEM users can easily integrate the solution with their code.

Application Areas

Digital Video Disc (DVD)   Direct Broadcast Satellite
Digital Cable TV / DTH   HDTV
Digital Audio Broadcasting (DAB)

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Technical Specifications

Standard supported	ISO / IEC 13818 -3

Processor		Single ADSP-2181
Decode MIPS		32.5
Program memory		16k
Data memory	16k	
User Integration		Library module that can be integrated by user

Demonstration of Solution ISA bus add-on card with demo application

MPEG-II AUDIO DECODE DEVELOPMENT PARTNER

The MPEG-II Audio Decode Solution was developed by Indchem Research and Development Labs. Ltd., and Analog Devices.

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