

## Multimedia Audio & Communication Controller

OPTi's 82C950 (MAC32) is an integrated digital audio controller for DSP-based PC Audio/Telephony applications. The OPTi MAC32 provides industry standard compatibility for PCM sample record and playback.

The MAC32 provides all of the digital functions and interfaces for DSP-based solutions, including Telephony, FAX/Modem, Speech I/O and CD quality audio.

OPTi's MAC32 includes the functions of AT Bus interface, DSP interface, Digital Audio Processor and interfaces to MIDI, CD-ROM, game port, Audio CODEC, Modem CODEC, Mixer, and DRAM control. All DMA and interrupt selections are software programmable. The MAC32 provides enough driving capability for all interfaces, eliminating the need for external buffers.

## Features/Benefits

- Integrated bus and peripheral control for AT&T's DSP3207
- Shared local DRAM architecture for high speed communication between PC host and DSP
- Sound Blaster™ Pro compatible integrated sound controller
- Supports 8 or 16-bit audio format
- Sample rates up to 44.1 KHz stereo
- Integrated MIDI UART with MPU-401 interface
- Software programmable AT interface for: I/O address, IRQ, and DRQ
- Software programmable CD-ROM interface for Sony, Mitsumi, Panasonic, and IDE
- 0.8μ CMOS technology
- 208 pin PQFP

## Applications

Together with Audio & Modem CODEC and Mixer, and AT&Ts DSP 3207, the OPTi MAC32 provides a cost-effective multimedia ISA card with the following features:

### Audio

- MPC2 compatible 5-channel mixer
- MPEG II realtime audio compression and decompression
- Sound Blaster Pro compatibility for PCM sample record and playback
- OPL3 FM synthesis emulation
- G.722 and G.728 Coding

### MIDI

- Wave table music synthesis
- MPU-401 MIDI interface compatible

### Video

- JPEG video compression/decompression

### Telephony

- V.32/V.32bis/V.32ter data modem
- V.29 and V.17 fax modem, Class I
- V.22/V.22bis data modem
- MNP1-5 protocols
- V.42/V.42bis data compression
- Caller ID
- Telephone answering machine
- Acoustic echo canceling full-duplex speakerphone

### CD-ROM

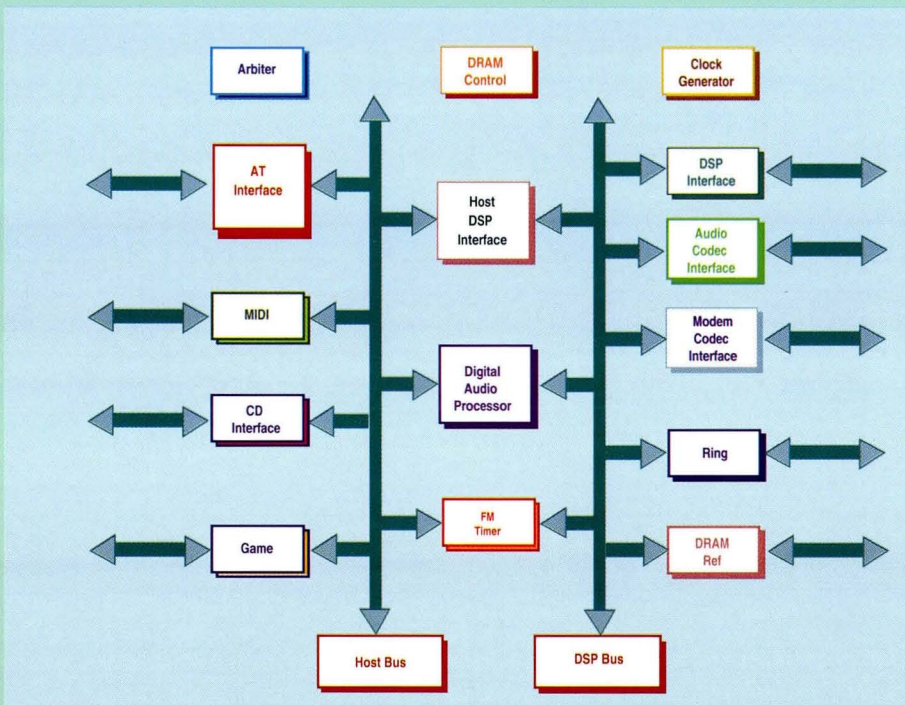
- Sony, Panasonic, Mitsumi and IDE interface

### Others

- Game port

**OPTi's MAC32:**

**The cost-effective multimedia solution for PCs.**



### Sales Offices, Representatives and Distributors

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OPTi, Inc.  
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**MEDIA CHIPS**  
A Multimedia Division of OPTi

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