

SOUND



MAD16 PRO

Multimedia Audio Controller

OPTi's 82C929 (MAD 16 PRO) is an integrated digital audio controller for PC sound applications. OPTi's 82C929 is compatible with Sound Blaster™ Pro, Ad Lib™, MPU 401 and Microsoft Windows Sound System™.

The OPTi 82C929 16-bit audio controller provides all of the digital functions and interfaces for Sound Blaster Pro compatible and Microsoft Windows Sound System compatible cards. The MAD 16 PRO is intended to provide an integrated audio solution for business audio, educational/entertainment sound and multimedia applications.

The MAD 16 PRO includes the functions of AT Bus interface, Sound Blaster Pro compatible Digital Audio Processor, and interfaces to MIDI, Windows Sound System, FM synthesizer, wave table synthesizer, game port timer, CODEC/Mixer, as well as four different types of CD-ROM's. All DMA and interrupt selections are software programmable. The MAD 16 PRO provides enough driving capability for AT Bus interfaces which eliminates the need for external buffering. A power-down mode is included for power conscious system designs.



Features/Benefits

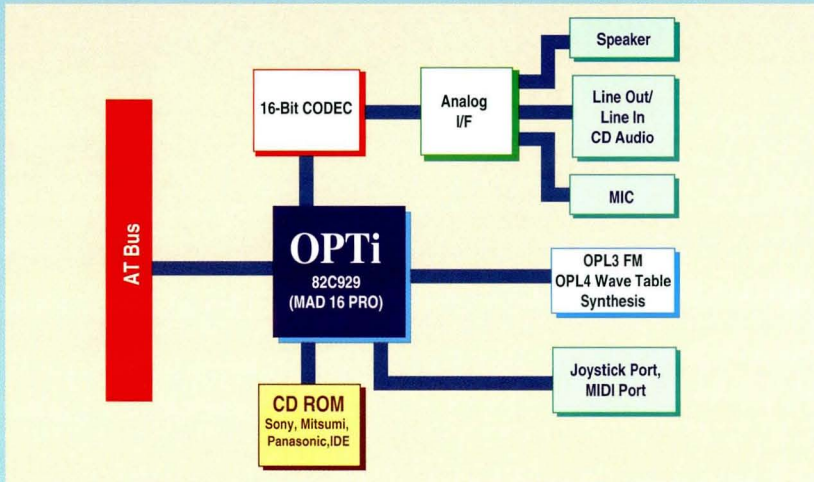
- Integrated sound controller compatible with Sound Blaster Pro, Ad Lib and Microsoft Windows Sound System.
- 8 or 16-Bit sound data.
 - Sound Blaster Pro 8-bit audio up to 44.1 KHz stereo.
 - Windows 8/16-bit audio up to 48 KHz stereo.
- Integrated MIDI UART with 8-Byte FIFO for both in and out with MPU-401 interface.
- Direct OPL2/OPL3/OPL4 interface.
- Built-in game port timer.
- CD-ROM interface for: IDE, Sony, Mitsumi, and Panasonic.
- All interfaces are software programmable including: I/O address, IRQ, and DRQ.
- 24mA Drivers for direct AT Bus interface.
- Power-down mode.
- Silence mode to turn off all audio functions



Applications

Together with the Yamaha OPL3 FM synthesis chip and a 16-bit CODEC, the OPTi 82C929 provides an integrated solution for the following applications:

- 16-bit sound quality Sound Blaster Pro and Windows Sound System compatible
- 20 Voice FM synthesis
- 16-bit CD-quality WAVE audio up to 48 KHz stereo
- Four types of CD-ROM interface
- Game port
- MPU-401 and Sound Blaster Pro MIDI interfaces
- OPL4 or other wave table synthesis upgrade



OPTi's 82C929:

The audio solution for computers that need to be heard.

| Specifications | OPTi 82C929 |
|--------------------------|--|
| Digital Audio | 16-Bit |
| Max Sampling Rate | 48 KHz |
| Wave Table Option | Yes |
| FM Synthesis | OPL2/3/4 |
| MPU-401 MIDI Interface | Yes |
| CD-ROM Interface | Yes (IDE, Sony, Mitsumi, Panasonic) |
| Jumperless Configuration | Yes |
| Compatibility: | |
| Ad Lib | Yes |
| Sound Blaster Pro | Yes |
| WSS (Windows and DOS) | Yes |
| Bundled Software | Sound Impression Recording Session |

Sales Offices, Representatives and Distributors

California

OPTi, Inc.
(408) 980-8178
Brooks Technical Group
(415) 960-3880
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(714) 724-8080
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(619) 587-0545

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(703) 533-2233

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Lyons Corp
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(614) 895-1447

Oregon, WA, BC, CN

Electronic Component Sales
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(503) 245-2342

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C-3 Sales
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(713) 379-5411
(512) 338-1333

Australia

Braemac Pty. Ltd.
2-564-1211

Brazil

Uniao Digital
(11) 533-4121

France

Tekelec Airtronic
(1) 4623-2407

Hong Kong

DYNAX Electronics Ltd.
2-481-0223
Fax: 2-481-0826

Italy

Consystem SRI
(039) 2-99-041977

Japan

Dia Semicon Systems, Inc.
(03) 3439-2700
Fax: 3-3439-2701

Korea

FM Korea
(02) 575-9720
Fax: (02) 575-9732

Singapore

Weslech Electronics Pte.
743-6355
Fax: 746-1396

Taiwan

OPTi
(2) 325-8520
Fax: (2) 325-6520
ASEC International Corp.
(2) 505-7025

United Kingdom

Manhattan Skyline
(0628) 75851

MEDIA CHIPS
A Multimedia Division of OPTi



OPTi Inc.
2525 Walsh Avenue
Santa Clara, CA 95051, U.S.A.
Tel: (408) 980-8178
Fax: (408) 980-8860
24-hour Bulletin Board: (408) 980-9774