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P1-AUDIO

General Purpose SoundBlaster™ Compatible Audio PC•MIP Module

Application Information

P1-AUDIO provides a SoundBlaster-compatible audio module capable of interfacing to a single stereo line input, stereo auxiliary input, and mono input, as well as amplifier-driven stereo speaker outputs, hardware volume control, a microphone, and a mono output. In addition, a TTL level PC speaker input is provided and routed through an auxiliary input. I/O is available through the module's flexible I/O connector.

The P1-AUDIO features the ESS Solo-1E™ single-chip PCI audio controller. This device has a microcontroller, an ESFM music synthesizer, a 3D stereo effects processor, 16-bit stereo wave ADCs and DACs, a DMA controller with FIFO, and an 80 dB dynamic range. The device can record, compress, and play back music, voice, and sound with built-in mixer controls. Stereo full-duplex operation is supported.

A 0.5 W peak per channel stereo audio amplifier is provided to drive speakers or headphone directly.

P1-AUDIO complies with the Microsoft PC 97/PC 98 specification.

WindowsNT 4.0 device drivers are available for P1-AUDIO. A VxWorks driver is available from 4Front Technologies.

The P1-AUDIO is compatible with the PCMIP draft specification (ANSI/VITA-29).

Features

- Type I PC•MIP Audio module with dual game port
- 16-bit stereo sound recording and playback
- Music synthesizer and 3D stereo effects processor
- Stereo amplifier included
- One stereo line input, one stereo auxiliary input, one mono input, one TTL level input, one microphone input, one mono line level output
- Complies with Microsoft PC 97/PC 98
- Compatible with SoundBlaster

Specifications

| | |
|--------------------------------|--|
| Form Factor | PC•MIP Single-wide Type I 10H |
| PC•MIP Interface | PC•MIP draft specification, Revision 0.9 |
| PCI | PCI Specification, Revision 2.1 |
| PCI Interface/Audio Controller | ESS Technology Solo-1E |
| Stereo Audio Inputs | Two pair |
| Mono Input | One |
| TTL Level Inputs | One (for PC speaker input) |
| Microphone Level Inputs | One |
| Input Impedance (all lines) | 125 kOhm |
| Mono Line Outputs | One, 5 kOhm impedance |
| Stereo Amplified Outputs | Each 0.5 W peak into 4 Ohms |
| Mixer | Stereo, seven channel |
| Software Volume Control | 6-bit logarithmic |
| Hardware Volume Control | Two wire |
| Record/Playback Sample Rates | Programmable 4 kHz to 48 kHz |
| On-Board Crystal | 14.31818 MHz |
| Dimensions | 47.0 mm x 90.0 mm |
| Weight | 0.027 kg (0.059 lb.) |
| Power Requirements | +3.3 VDC, 50 mA typ +5 VDC, 50 mA typ +12 VDC, 150 mA typ -12 VDC, 50 mA typ |
| Environmental | Operating temperature: 0 to 70°C Humidity: 5 to 95% non-condensing Storage: -40 to +85°C |

Compatibility

P1-Audio is a Type I module. This means that it has a J3 connector for flexible I/O. It can be plugged into any Type I module site.

If the bus mastership features of the audio controller are used, then this module requires a site that has bus mastership capability. Bus mastering sites are shown in bold in the table below:

| Carrier | Type | Compatible Sites |
|----------|----------------|-------------------------|
| MC-101 | Short PCI slot | Yes |
| MC-101DB | Short PCI slot | Yes |
| MC-303 | 3U Compact PCI | 5, 6 |
| MC-606 | 6U Compact PCI | 8, 9 |
| MC-607 | 6U Compact PCI | 4, 5, 6, 7, 8, 9 |
| MC-804 | Long PCI slot | 4, 5, 6, 7 |

Ordering Information

P1-AUDIO Type I PC•MIP module for SoundBlaster audio
EK-P1-AUDIO Engineering Kit for P1-Audio. Contains:
 Printed hardware user manual
 Bill of materials
 Assembly diagram
 ESS Solo-1E 1946 data sheet
 ST TEA2025D Audio amplifier data sheet
 Floppy disk containing:
 Windows NT 4.0 driver



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