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PMC-AUDIO-FP

General Purpose SoundBlaster™ Compatible Audio PMC

Application Information

PMC-AUDIO-FP provides a SoundBlaster-compatible audio module capable of interfacing to a single stereo line input, stereo auxiliary input, a microphone, and a mono input, as well as amplifier-driven stereo speaker outputs, hardware volume control, and a mono output. In addition, a TTL level PC speaker input is provided and routed through an auxiliary input.

PMC-AUDIO-FP has 3.5mm jacks on the front panel for stereo speakers, one stereo line input, one stereo aux input, and a mono microphone. The PMC includes rear panel support for mono input and output, PC speaker input, and volume control.

The PMC-AUDIO-FP features the ESS Solo-1™ ES1938 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. It is compliant with ACPI power management standards.

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

PMC-AUDIO-FP complies with the Microsoft PC 97/PC 98 specification. Windows NT 4.0 device drivers are available. A VxWorks driver is available from 4Front Technologies.

The card is compliant with standard single-wide PMC specifications IEEE P1386.1 and PCI 2.2 specifications.

Features

- 16-bit stereo sound recording and playback
- Music synthesizer and 3D stereo effects processor
- Stereo amplifier included
- Microphone input, stereo speaker outputs, stereo aux inputs, and stereo line inputs
- Hardware volume control, one mono input, one mono line level output, and one speaker input (TTL) via P4 connector
- Compatible with SoundBlaster

Specifications

Form Factor	Single-wide PMC
PCI Interface	33 MHz, 32-bit, slave and master, 5V signaling only
PMC Conformance	PCI Protocol and Electrical Rev 2.2
PCI Interface/Audio Controller	ESS Technology Solo-1 ES1938
Stereo Audio Inputs	Two pair
Mono Line Level Inputs	One
TTL Level Inputs	One (for PC speaker input)
Mono Microphone Level Input	One
Input Impedance (all analog inputs)	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
Front Panel I/O	Stereo speaker outputs (3.5mm jack) Stereo line input (3.5mm jack) Stereo aux input (3.5mm jack) Mono microphone input (3.5 mm jack) *Front panel inputs are grounded when not in use*
Common Rear Panel I/O	Mono line input and output PC speaker input (TTL) Volume up/down +5V via protection resistor
Dimensions	75.0 mm x 150.0 mm
Weight	0.082 kg (0.181 lb.)
Power Requirements	+3.3 VDC, 20 mA typ +5 VDC, 20 mA typ +12 VDC, 150 mA typ -12 VDC, 20 mA typ
Environmental	Operating temperature: 0° to 70° C Humidity: 5% to 95% non-condensing Storage: -40° to +85° C

Ordering Information

PMC-AUDIO-FP	PMC for SoundBlaster audio

1284 Corporate Center Drive • St. Paul, MN 55121-1245
Tel: 651-905-4700 • FAX: 651-905-4701
Email: info.commercial@sbs.com • Web: www.sbs.com

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