

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Abaco Systems / SBS P1-99081* at our website: *Click HERE*

SBS Technologies, Inc.

www.sbs-mio.com

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

Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com

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**

Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com

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

SBS Technologies, Inc.

8371C Central Avenue, Newark, California 94560
(510) 742-2500 • sales.mio@sbs.com • www.sbs-mio.com

Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP