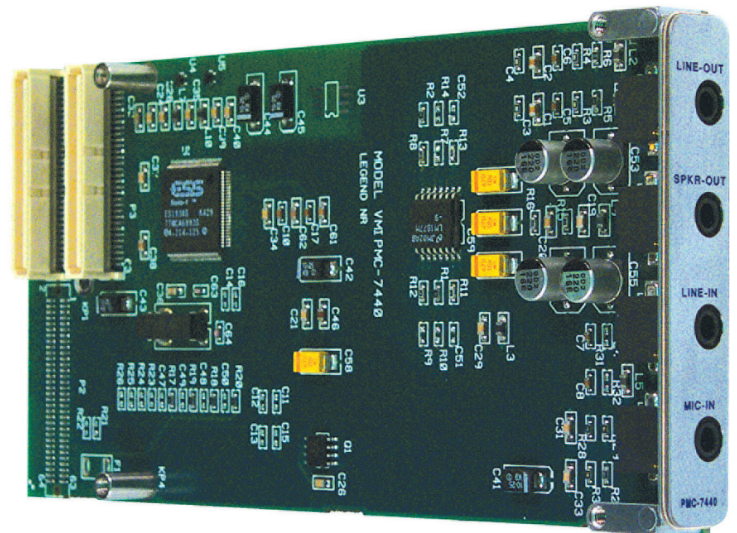


PMC-7440

Sound Card



The PMC-7440 is a fully integrated PMC solution providing high-quality audio processing while maintaining full legacy DOS game compatibility. With a dynamic range with more than 80 dB, the PMC-7440 complies with the Microsoft® PC97/PC98 specifications, and meets WHQL audio requirements. The PMC-7440 forms a complete audio subsystem providing microphone, line in, line out, and speaker out interface via 3.5 mm stereo jacks.

The PMC-7440 incorporates a microcontroller, ESFM music synthesizer, 3-D stereo effects processor, 16-bit stereo wave ADC and DAC, 16-bit stereo music DAC, DMA control logic with FIFO, and PCI bus interface logic.

The PMC-7440 integrates field-proven hardware design for DOS game compatibility

with hardware FM synthesis (ESFM) and three methods for legacy audio control interface: PC/PCI, Distributed DMA, and Transparent DMA. Transparent DMA requires no sideband signals from PC core logic chipsets in addition to the standard PCI 2. The PMC-7440 can record, compress, and playback voice, sound, and music with built-in mixer controls. It supports stereo full-duplex operation for simultaneous record and playback. The ESFM synthesizer has extended capabilities within native mode operation providing superior sound and power-down capabilities. The integrated 3-D audio effects processor uses technology from Spatializer Audio Laboratories, Inc., and expands the sound field emitted by two speakers to create a resonant 3-D sound environment. The PMC-7440 is compliant with advanced configuration and power interface (ACPI) standards.

FEATURES:

- 12 ports 10/100BaseTX, auto-negotiating, front panel
- Full wire speed Layer 2 switching on all ports
- 1K MAC address table
- Auto address learning
- Auto address aging
- Leading edge QoS capabilities, based on 802.1p and IP TOS/DS field
- Enables mixed voice-data networks
- Provides port-based prioritization of packets on 4 ports
 - Input ports are defined to be high or low priority
 - Allows explicit identification of IP phone ports
- Up to eight port-based VLANs
- Provides both full/half duplex ports
- Flow control capabilities
 - Back pressure for half-duplex
 - 802.3x flow control for full-duplex
- Optional conformal coating available

PMC-7440 *Sound Card*

Specifications

Form Factor

- PMC

MTBF

- Bellcore: 868, 372 Hours

Power Specifications

- 240 mA (maximum) @ 5 V
- 440 mA (maximum) @12 V

Environmental

- Temperature
 - Operating: 0° to +50 °C
 - Storage: -40° to +85 °C

Ordering information

PMC-7440 Sound card

WE INNOVATE. WE DELIVER. YOU SUCCEED.

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