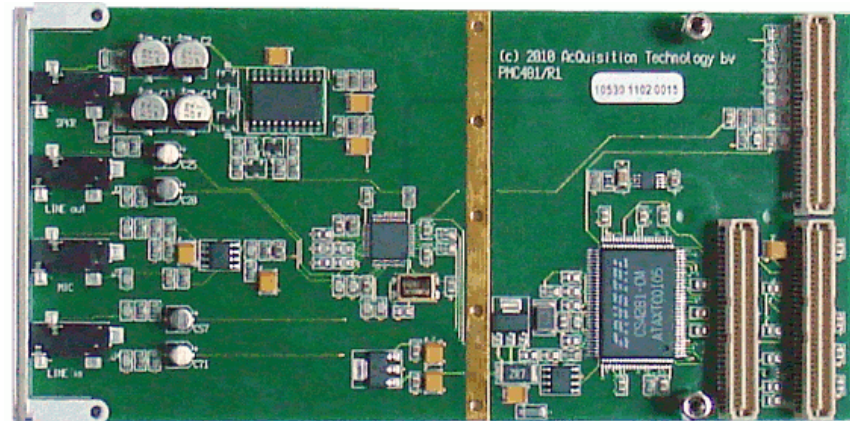


PMC481

Audio PMC card



A PMC audio card with front and rear I/O based on the Crystal CS4281 CrystalClear™ PCI Audio Interface controller and the Crystal CS4299 CrystalClear™ SoundFusion™ Audio Codec '97. The PMC481 features four audio connections via the front panel using 3.5mm stereo connectors.

The audio connections are also available via the rear I/O of the PMC481 using the:

- > PIM481-J (PMC I/O Module, with four 3.5mm stereo connectors) or the
- > PIM481-DSUB (PMC I/O Module, with D-sub for rear I/O).

The PIM481-J and PIM481-DSUB can be mounted on a rear transition module (RTM). More information on these I/O modules can be found on our website.

The audio interface consists of a line input, a microphone input, a line output and a speaker output with an oncard stereo amplifier.

Driver support for the Crystal CS4281 is included in commonly used operating systems, like Windows, Linux and VxWorks (refer to OpenSound).

Features:

- > Single PMC slot (IEEE 1386.1-2001) with front I/O and rear I/O
- > Optional PIM481-J or PIM-DSUB (VITA 36) for rear I/O connections
- > Crystal CS4281 CrystalClear™ PCI Audio Interface controller
- > Crystal CS4299 CrystalClear™ SoundFusion™ Audio Codec '97
- > PCI interface: PCI 2.1 compliant, 33MHz, 32-bit interface, 3.3V and 5.0V signalling supported, 5V and 12V supply
- > 4 audio connections via front or optional PIM faceplate: Line In (stereo), Line Out (stereo), Microphone In (mono), Speaker Out (stereo)
- > On-board amplifier with current limiter
- > Driver support for the Crystal CS4281 is included in commonly used operating systems, like Windows, Linux and VxWorks (refer to OpenSound).

PCI Bus Compliance

- * PCI 2.1 compliant
- * PMC: IEEE 1386.1-2001 compliant
- * 33MHz, 32-bit interface
- * 3.3V or 5.0V PCI signalling
- * 5V and 12V supply voltage
- * PIM: VITA 36 compliant

Controller

- * Crystal CS4281 CrystalClear™ PCI Audio Interface controller
- * Crystal CS4299 CrystalClear™ SoundFusion™ Audio Codec '97

Audio Interface

Line In:

- * Stereo Line Input, standard 3.5mm jack
- * Dynamic range for line in is 2Vrms
- * Microphone: the microphone jack (standard 3.5mm) is designed for electret (condenser) microphones that need phantom power on the jack's ring terminal
- * The jack's ring terminal provides filtered 2.5V for powering the mic
- * Input voltage range with the 20dB boost off is 125mVrms, with the 20dB mic boost enabled the range is 12.5.Vrms

Audio Interface

Line Out:

- * Stereo Line Output, standard 3.5mm jack
- * Output is 1Vrms into 10K load

Speaker Out:

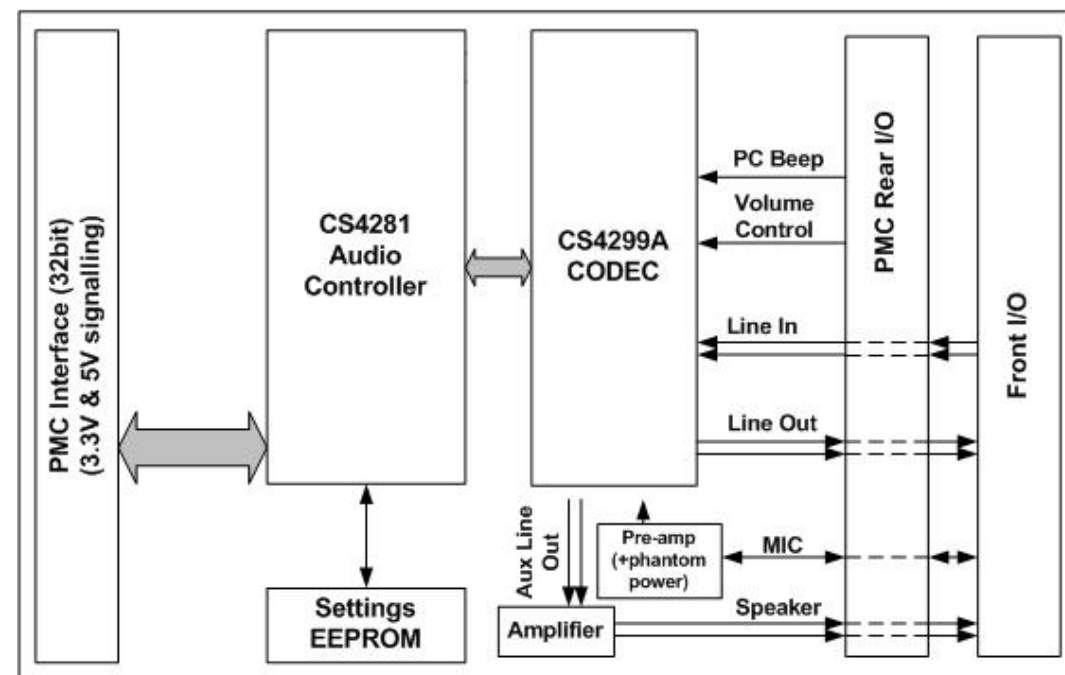
- * Stereo Speaker Output, standard 3.5mm jack
- * Output up to 1.5W per channel into a 4 or 8 Ohm load, but should be kept less than this over long periods unless the system has above average cooling.
- * The +12V supply has an onboard current limiter (500mA) to prevent short circuit during live insertion of jack plug

Software

- * Driver support for the Crystal CS4281 is included in commonly used operating systems, like Windows (up to XP), Linux and VxWorks (refer to OpenSound).

Ordering Information

- * **PMC481/T01** PMC Audio Card with front and rear I/O
- * **PMC481/T02** PMC Audio Card with front and rear I/O (extended temperature -40°/+85° C)
- * **PMC481/T03** PMC Audio Card with rear I/O only
- * **PIM481-J/T01** PMC I/O Module with four 3.5mm audio jacks for rear I/O
- * **PIM481-DSUB/T01** PMC I/O Module with D-sub for rear I/O



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