



Document # 2206

Audio Connection Specifications for Backpack CD-ROM's 16-bit Sound Board

(NOTE: This document only applies to Backpack Model 16x700 and 17x700, or Backpacks with the PN#826 Sound Upgrade Kit installed. It does not apply to [Backpack Bantam](#)+Sound Model 180200.)

Outputs

SPEAKER (Stereo Output): 2-watts maximum per channel, manual volume control

This specification provides the maximum power supplied to an external speaker or headphones. Amplified speakers will boost that power to the maximum specification of the amplified speakers.

LINE OUT (Stereo Output): 4 volt maximum 5K Ohms impedance

This connection allows you to send the audio sounds produced by Backpack's sound board out to the "Line Input" of a home stereo, amplifier, or any recording device featuring Line Inputs.

VOLUME CONTROL: (see SPEAKER Output above)

Regulates the level of the Speaker Output. This volume control does not affect the Line Output, or Inputs.

Inputs

LINE IN (Stereo Input): .5 to 4.5 Vrms, 30K to 100K Ohms impedance

This is the standard line-input that will allow connection of a wide variety of audio devices, such as connections from the "line-out" of a cassette tape deck, home cd-player, VCR, stereo receiver, etc.

AUXILIARY (Stereo Input): same as LINE IN (above)

MICROPHONE (Mono Input): 10 to 125 millivolts Extra 26dB gain over Line In

30K to 100K impedance

This connection allows the addition of a powered or unpowered microphone, allowing you to add your voice or other external sounds to your recordings.

CD-AUDIO (Stereo Input): 16-bit stereo connection Internally connected to Backpack CD-ROM

This feature allows you to play and record the "CD-AUDIO" (Red Book CD) from music CD's being played within the Backpack CD-ROM Drive (such as Classical, Top 40, Rock , or Country CD's found in the music department of retail stores).

Additional Audio Outputs on the Front and Back of Backpack CD-ROM Models

PHONES (Stereo Output): .7Vrms maximum 100 Ohms impedance

This is located on the front of all models of Backpack CD-ROM drives and will accept a 1/8" stereo jack for headphones or small amplified speakers designed to replace headphones. This output is similar to the headphone output on a personal stereo. This output is *Only* capable of producing CD-AUDIO sound (see Micro Solutions Technical Support Document # 2204 for additional details).

CD AUDIO OUTPUT (Stereo Output): .9Vrms maximum 10k Ohms impedance

This is located on the back of all models of Backpack CD-ROM drives and allows connection to the "Line Input" of a home stereo, amplifier, or any recording device featuring Line Inputs. This output is the same as the Line Output on a home stereo CD player. This output is *Only* capable of producing CD-AUDIO sound (see Micro Solutions Technical Support Document # 2204 for additional details).

All Input/Output jacks are 1/8" stereo plugs (standard size) except for the Microphone input, which is 1/8" mono plug.

All specifications are subject to change without notice.

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