

PopPulse PCM1796 DAC User Manual

Congratulations on purchasing this superior quality audiophile product.

The PopPulse PCM1796 USB DAC has both the performance and credentials to become the new benchmark in the highly competitive affordable DAC market.

Keeping it simple, this unit forgoes any needless extra features such as being a pre-amplifier or doubling as a headphone amplifier.

Instead all effort has gone into making the PopPulse PCM1796 a superior quality Digital to Analogue Converter.

The two piece aluminium box chassis design serves to separate the high quality mains power transformer from the sensitive DAC conversion circuitry. In doing so, the signal to noise ratio is enhanced by interference being reduced.

As well as featuring optical toslink and coaxial digital SPDIF inputs, the PopPulse PCM1796 DAC features a very high quality USB 2 input.

Using the excellent CM-108 receiving chip, this USB 2 input directly converts and feeds the data stream into the high performance BB / TI PCM1796 DAC chip in the superior I2S format (avoiding any needless jitter inducing conversion into SPDIF).

The PopPulse PCM1796 DAC has both the resolution and finesse to take on and beat the competition.



In the Box

Carefully unpack the PCM1796 DAC making sure all the below are present:

- Mains Power Lead
- Optical Toslink Digital Interconnect
- Coaxial Digital Interconnect
- Audiophile Grade USB 2 Cable

Operating the PCM1796 as a USB DAC

Please switch OFF all devices before making any connections with the PCM1796.

Using an analogue interconnect cable (not supplied), plug one end of the cable into the RCA Analogue Outputs of the PCM1796 and the other end of the cable into a spare input of a suitable amplifier (**make sure amplifier is not switched on**).

Using the supplied mains power lead, plug one end of the lead into the IEC AC mains input on the rear panel of the DAC and (**make sure AC outlet is not switched on**) plug the other end into a spare AC mains power outlet.

Switch on the AC mains power outlet and using the power switch on the rear panel of DAC, switch on the device.

If powered on correctly, one of the input LEDs on the front panel of the DAC should be illuminated. Using the input "Select" button on the front panel of the DAC, change input to "USB".

Using the supplied USB Cable, plug one end into the USB input on the rear panel of the U-II and the other end of the cable into a spare USB socket on the PC.

If plugged in correctly, the Windows Operating System on the PC should automatically recognise the DAC (assuming Windows version is XP or later).

Using a software media player such as Winamp, playback an audio file (It could be a WAV, MP3, CD, Internet radio stream, etc...).

Making sure the volume control is turned down on the amplifier, switch on amplifier. Adjust volume to suit. Enjoy the music!!

Operating the PCM1796 with other digital devices

Please switch OFF all devices before making any connections with the PCM1796.

Basically the same procedures described previously except rather than connecting to a PC or Mac, the DAC will be connected to another audio playback device such a DVD or CD player by either the Coaxial or Optical digital input.

Using a suitable digital interconnect (Coaxial and optical supplied), plug one end into the relevant digital input on the rear panel of the DAC.

Plug the other end of the digital interconnect into the SPDIF digital output (either optical toslink or coaxial) of a suitable playback device.

Using an interconnect cable (not supplied), plug one end of the cable into the RCA Analogue Outputs of the DAC and the other end of the cable into a spare input of a suitable amplifier **(make sure amplifier is not switched on)**.

Using the supplied mains power lead, plug one end of the lead into the IEC AC mains input on the rear panel of the DAC and **(make sure AC outlet is not switched on)** plug the other end into a spare AC mains power outlet.

Switch on the AC mains power outlet and using the power switch on the rear panel of DAC, switch on the device.

If powered on correctly, one of the input LEDs on the front panel of the DAC should be illuminated. Using the input “select” button on the front panel of the DAC, change input to either “Opti” or “Coax” .

Switch on the playback device and play some music / audio.

Making sure the volume control is turned down on the amplifier, switch on amplifier. Adjust volume to suit. Enjoy the music!!

Front Panel



Features:

- High Performance BB PCM-1796 DAC Chip
- High quality USB Input
- Optical Toslink Digital Input
- Coaxial Digital Input
- CS8416 Receiver Chip
- High quality internal mains transformer

Specifications:

- Input impedance: 75Ω

- D/A converter: 24 bit / 192 KHz
- Audio output: 2.0v
- S/N: 116dB
- Dynamic range: 118dB
- Frequency response: 15Hz - 80kHz
- Max power dissipation: 50W
- Dimension: L: 24.5 cm, W: 12 cm, H: 4.5 cm
- Weight: 1.5kg