Overview
The Digital Audio Converter, LPCM (500080) converts one LPCM-encoded coaxial (S/PDIF) or optical (TOSLink) digital audio signal to a standard left/right analogue audio output, thereby allowing a digital audio source such as a DVD or CD player without RCA analogue audio output to be connected to an audio-video receiver or TV.

Applications
Adapting 2-channel digital audio to legacy analogue audio systems Commercial and residential AV systems classroom video systems, boardroom systems.

Installation
Identify the connectors on the Digital Audio Converter as indicated on the product panels.
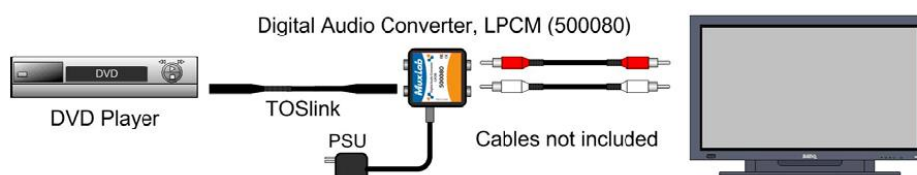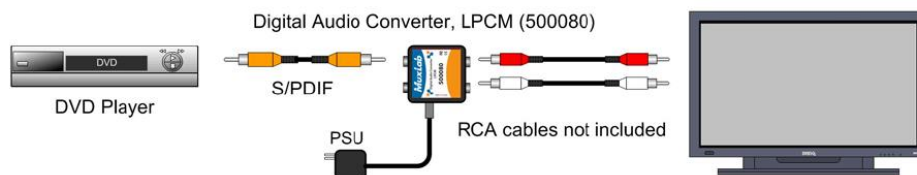
To install Digital Audio Converter:

Connect converter input to the digital audio source with an Optical (TOSLink) or 75-ohm coaxial (S/PDIF) cable.
Set the input switch to the appropriate signal.
Connect the converter output to the analogue audio receiver with a stereo audio compliant cable.

Connect the 5 VDC power supply to the converter first, and then plug the power supply into an AC power outlet. If power is present, the green power LED of the Digital Audio Converter will be ON.

Note: **Power-on the Digital Audio Converter only after all connections are made.**

Power-on the audio source and receiver and verify the image quality.

The following diagrams shows the final configuration.

20-1901 MUXLAB 500080 DIGITAL AUDIO CONVERTER LPCM, S/PDif RCA, Toslink in, 2x RCA analogue out

Troubleshooting

Symptom	Power LED	Lock LED	Probable Cause	Possible Solutions
No Sound	OFF	OFF	No power	Check power connections
No Sound	ON	OFF	Optical/Coaxial Cable	Check the Optical/Coaxial cables.
No Sound	ON	ON	Stereo audio cable	Check the stereo audio cable.
No Sound	ON	ON	Wrong input on receiver	Check if the selected input on the receiver can receive analogue stereo audio.
Noise	ON	ON	Audio source outputs a compressed bitstream such as Dolby Digital/DTS	Configure the source to only output a uncompressed LPCM bitstream
Choppy sound	ON	ON	Weak Connections	Check cable connection Check the Optical/Coaxial Cable Quality

If you still cannot diagnose the problem, please call MuxLab Customer Technical Support:

North America 877-689-5228
International   (+1) 514-905-0588

Specifications

Environment	Digital Audio, LPCM
Devices	DVD, CD Players, TV, PC, IP streaming devices, AVR
Transmission	Transparent to the user
Signals	2 channel LPCM (Linear Pulse Code Modulation)
Connectors	One (1) Coaxial connector
	One (1) TOSLink Connector.
	Two (2) RCA Connectors.
	Note: TOSLink cable included. RCA cables not included.
Switch	Selects between SPDIF and TOSlink
Distortion	<0.001% @ 1KHz
SNR	> 90 dB (20Hz – 20 KHz)
Sample Rate	32, 44.1, 48 and 96 KHz
Bit Depth	24 bit S/PDIF bitstream on right and left channels
Power Supply	One (1) 110-240V/5VDC power supplies with interchangeable blades
Power Consumption	0.75 Watt
Temperature	Operating: 0° to 40°C
	Storage: -20° to 85°C
	Humidity: Up to 95% non-condensing
Enclosure	ABS fire retardant plastic
Dimensions	2.4" x 2.25" x 1.0" (6.1 x 5.5 x 2.5 cm)
Weight	1.0 lb (0.45 kg)
Mounting	Hook & Loop pads included.
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	2 years
Order Information	500080 Digital Audio Converter, LPCM