

# TRANSIENT

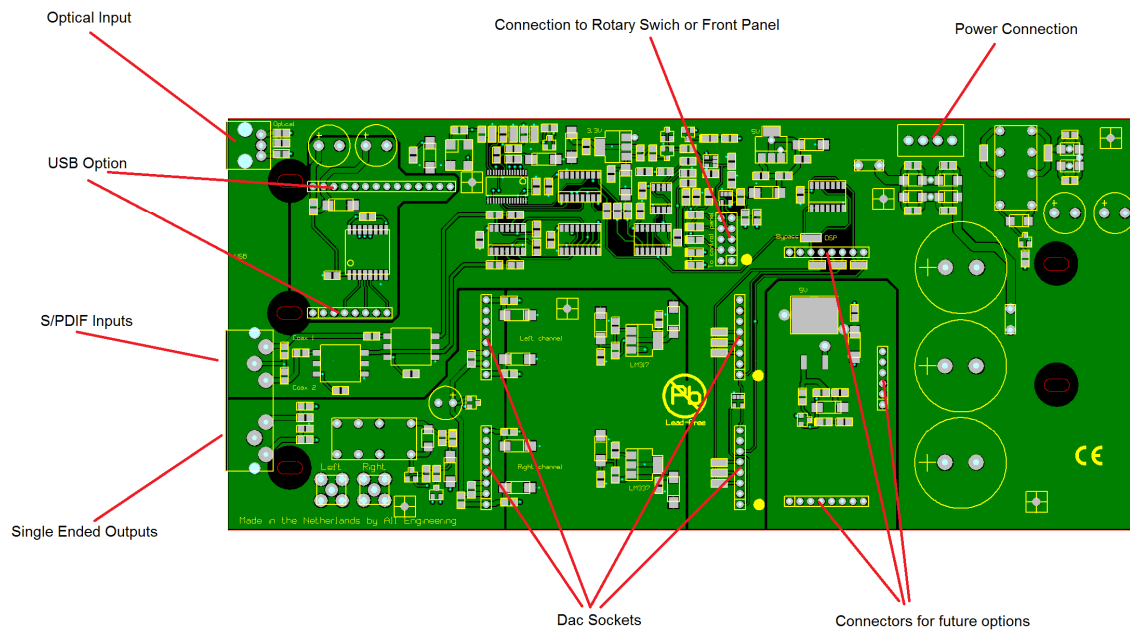
## Single ended Dac motherboard application information



## Introduction

The "Single ended Dac Motherboard" is a solution to create a complete and "ready for use" dac system. The board contains all necessary inputs like 2x S/PDIF , 1x Optical and 1x USB. Depending the chosen input , the board can handle up to 384kHz sampling rate. The board can be controlled by a simple rotary switch to select the available inputs or which can be done by a dedicated custom made front panel. Just connecting the board to a transformer having two 10 – 12 VAC output windings and the board is ready for use.

## Possible connections and settings

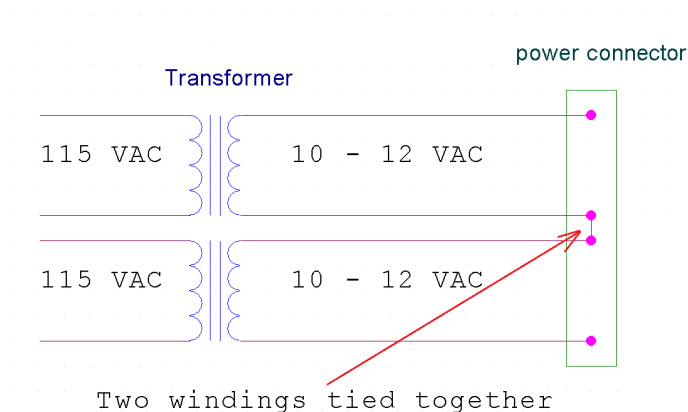


### Power connection.

The power connection accepts 2x 10VAC as a minimum voltage. This voltage is based on optimal regulation of the voltage regulators. If necessary a dedicated transformer can be delivered, having both 115 Volts and 230 Volts primary windings and both 10 Volts secondary windings. The use of an alternative 2x 12 Volt creates more heat but has no further advantages. Total power consumption is max 4 Watts so the use of a 15VA transformer will be convenient.



**The "Single ended Dac Motherboard" module will connect both secondary windings together so watch the polarity of both windings to avoid damage to the transformer!!**



### **Power relay option**

In conjunction with a rotary switch or front panel logic, the board can be switched on and off via the source select input connector. If not used, the relay contacts can be bypassed with tin drops on both sides of the power relay.

### **Dac module sockets**

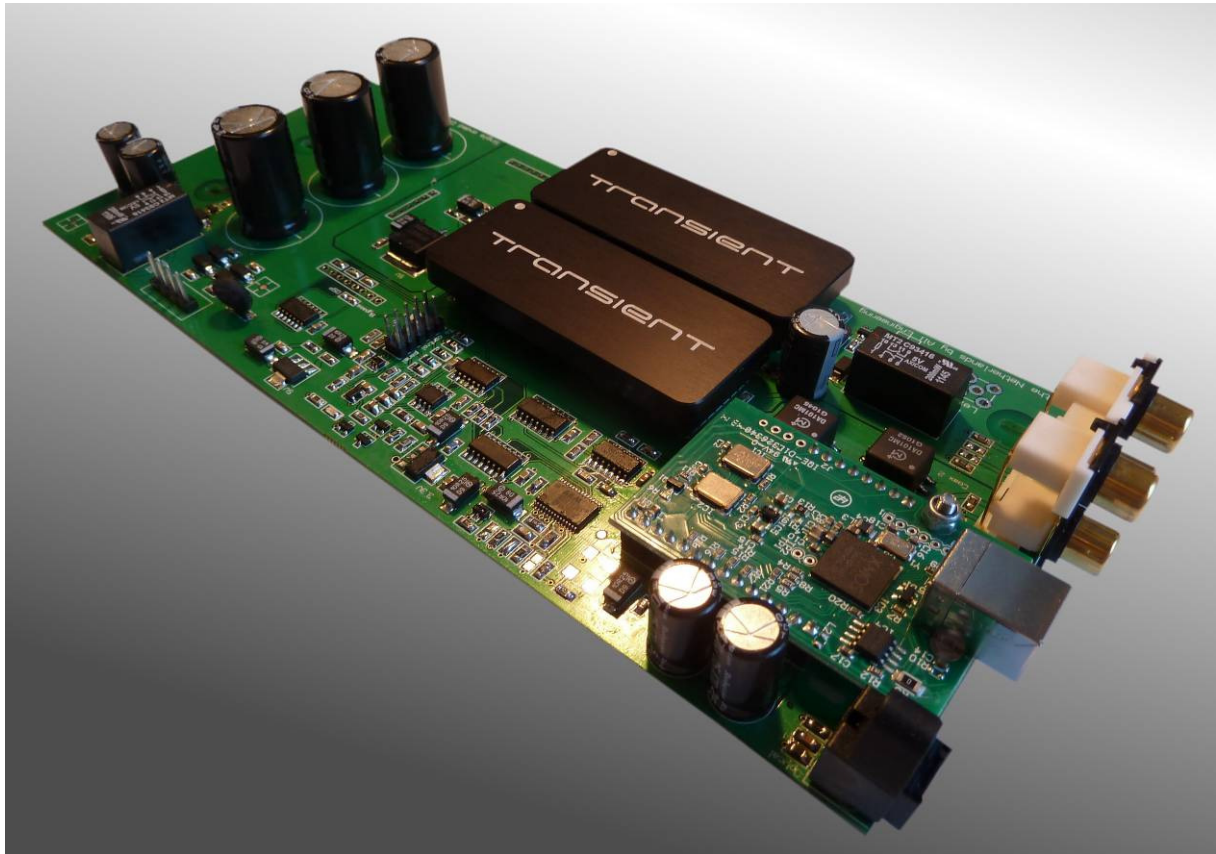
The " Single ended Dac Motherboard" will be delivered with two dac slots which are compatible with both Dac One or Dac Two modules.



**By placing the dac modules in 180 degrees position you will create a permanent damage to both "Single ended Dac Mother board" and dac modules!!**

### **USB Option**

As option an USB option can be delivered on top of the main board. The USB board can handle a Maximum sample rate of 384kHz. Power supply for this module will be delivered by the connected computer but will pass a huge internal filter before linear voltage regulation take place.



The " Single ended Dac Motherboard" will be delivered without dac modules or USB option. Connectors can be delivered separately.

### **Special OEM versions of the " Single ended Dac Motherboard"**

In case of quantities of 25+ , the board can have your own logo and pcb color.

## Specifications

Description.	Single ended Stereo stand alone dac.
Power requirements.	2x 10 -12 VAC
Power consumption.	less than 4 Watts with dac modules installed
Recommended transformer.	10VA or more. A dedicated power transformer of 15VA is available for global use.
Digital inputs.	2x S/PDIF. Max sampling rate 192kHz 1x Optical Toslink. Max. sampling rate 96 kHz 1x USB (option) Max. sampling rate 384 kHz
Analog output	2 Volts RMS, Dac modules installed
Channel separation	100dB (measured with Dac One module)
Muting circuit	Analog outputs available after four seconds. The board will mute immediately if control data is switching to standby.
Size.	219 x 100 mm

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