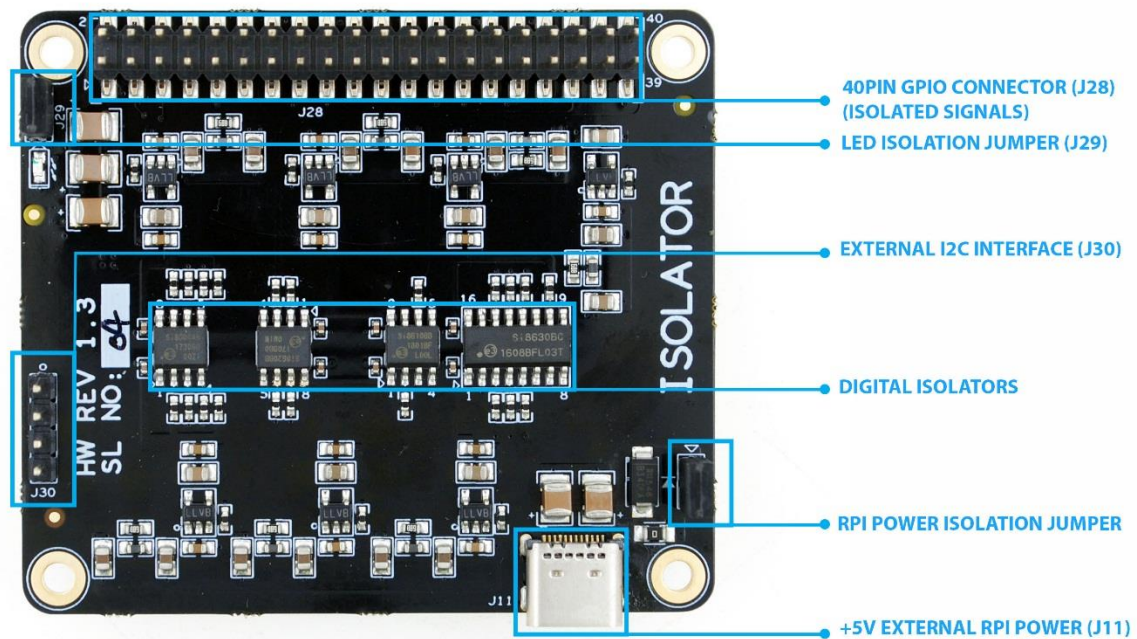


# ISOLATOR 1.2

This board is compatible with the KATANA and BOSS master DACs.

Features include:

- Full galvanic isolator between SBC/DAC
- Isolated I2S, I2C & GPIO.
- Sampling rate supported 44.1k to 192k 16/24/32.
- Low noise LDO and filters used for reducing the noise and ripple.



## Installation

**Stacked up:** plugged into the 40 pin GPIO header of the RPI. On top, plug the Katana set or Boss.

## Powering options

**Power Options:** Isolator requires 5V primary power and 5V clean power as secondary. Primary Power can be fed from the RPI or through USB-C type connector on Isolator according to RPI Power Isolation Jumper J26.

### **Primary Power:**

RPI POWER Isolation Jumper (J26) Closed >> Connect 5V 3A PSU to Isolator USB-typeC. Isolator board will feed power to RPI.

RPI POWER Isolation Jumper (J26) Opened - Power source connect to RPI

**Secondary Power** (5V Clean Power): This power is taken from the DAC connected on top of Isolator. Jumper settings required on Katana and Boss:

Katana DAC : Katana board J30 closed (ON)

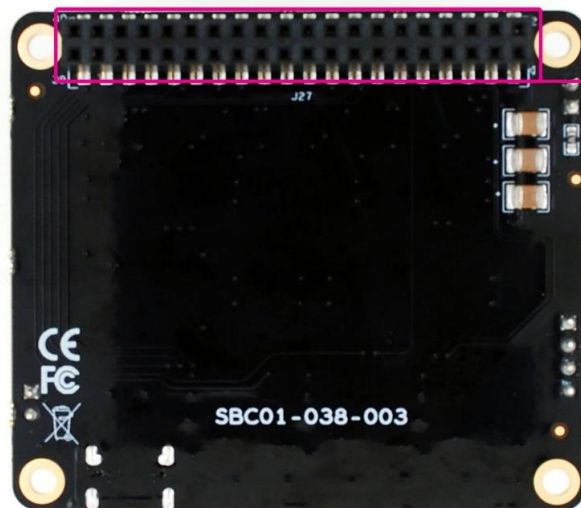
Boss DAC : J25 jumper closed (ON)

**PWR Led Indication:** Power LED glows on secondary power mode. This power LED can be switched off by opening J29 jumper.

**SBC I2C :** SBC I2C (RPI -I2C-1) header provided on Isolator PCB for connecting external devices like display.

Pinouts	VCC (1)	I2C1-SDA (2)	I2C1-CLK (3)	GND (4)
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### **ISOLATOR BOTTOM VIEW**



40PIN RPI CONNECTOR (27)  
(NON-ISOLATED SIGNALS)