

# PI2MEDIA 503DAC1 Audiophile DAC-HAT

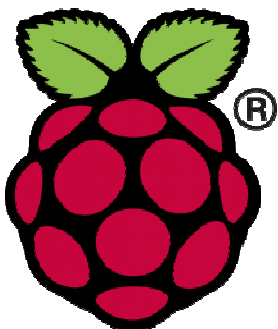
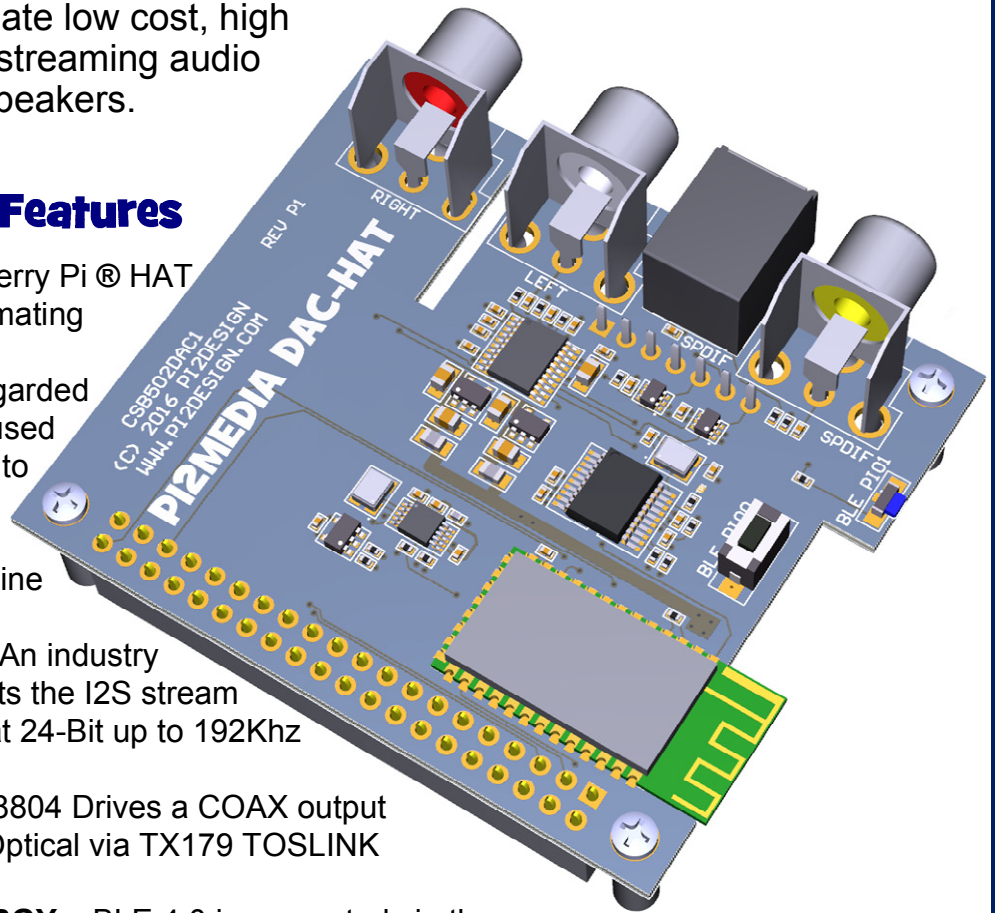
## Introduction and Overview

The 503DAC1, designed and manufactured by Pi2Media (a division of Pi 2 Design), is a professional I/O Shield designed to bring audiophile quality to the Raspberry Pi® family of Single Board Computers. This low cost HAT converts the Raspberry Pi® I2S Port to High Definition Audio, both Analog and Digital. A BLE 4.0 Module is also included for remote control support.

When combined with our 502SSD Multi-Function storage shield w/802.11b/g/n WiFi, you can quickly create low cost, high performance multi-room streaming audio servers using powered speakers.

## Specifications and Features

- **FORM FACTOR** – Raspberry Pi® HAT Compliant Size w/40-Pin mating connector.
- **24-Bit DAC** – The well regarded 112db THD PCM5102 is used to convert the I2S Stream to Analog at 24-Bit up to 192Khz Frame Rate
- **ANALOG OUT** – 2Vrms Line Out via Dual RCA Jacks
- **SPDIF TRANSMITTER** – An industry standard WM8804 converts the I2S stream to SPDIF formatted data at 24-Bit up to 192Khz Frame Rate
- **DIGITAL OUT** – The WM8804 Drives a COAX output via RCA Jack as well as Optical via TX179 TOSLINK Transmitter
- **BLUETOOTH LOW ENERGY** – BLE 4.0 is supported via the included HM-10 Module. This module uses the TI CC2541 BLE silicon and interfaces via the Raspberry Pi® UART port.



# Pi 2 Design

[www.Pi2Design.com](http://www.Pi2Design.com)

