

# BerryNOS mini

**user manual**

Revision 1.0



## Overview

BerryNOS mini is an 16-bit stereo audio reference DAC module designed for Raspberry PI model B. I<sup>2</sup>S based together with Philips D/A converter with a fully balanced design and a unique discrete buffered output stage. BerryNOS mini is prepared for Raspberry PI but could also be used as an I<sup>2</sup>S DAC in other applications.

## Power Requirements

BerryNOS mini is fed directly from Raspberry PI and no other external PSU is needed.

## Configuration

BerryNOS mini doesn't need any hardware configuration. The only thing needed is to have I<sup>2</sup>S drivers/modules installed and running when used with Raspberry PI.

## Technical details

Input up to 24bit

Output up to 16bit / 192 kHz

Output balanced / unbalanced

Frequency 4 Hz - 18 kHz

THD+N = 0.02% (1 kHz)

## Inputs

Raspberry PI input

## Outputs

L/R Balanced (needs soldering)

L/R Unbalanced (needs soldering)



# Installation with Raspberry PI

BerryNOS mini is easy installed within seconds if you follow this guide.

Note: You need to have a Raspberry PI with soldered male header P5, soldered on the top.

- A** Attach the BerryNOS mini female header to Raspberry PI male header.
- B** Insert the short spacers between BerryNOS mini and Raspberry PI and tighten the screws through Raspberry PI-Spacers-BerryNOS mini.

