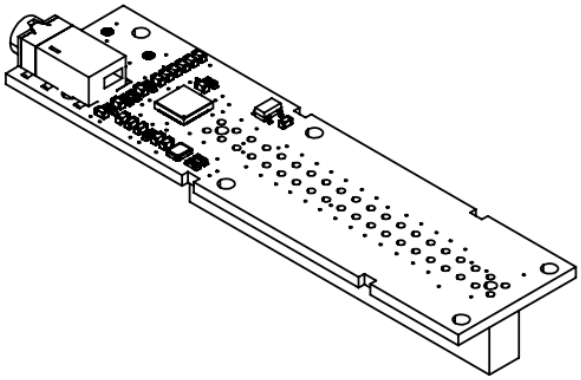
OSA ELECTRONICS DACBERRY 400 S

Features

- Up to 96kHz/32bits
- 102dB SNR DAC, 92dB SNR ADC
- THD+N @1kHz – 0.006 %
- Integrated DSP
- 3D Effects and De-Emphasis
- Low-Noise design with isolated Digital and Analog parts
- Board leaves all the USB ports free
- Compatible with Raspberry Pi and others with the same GPIO



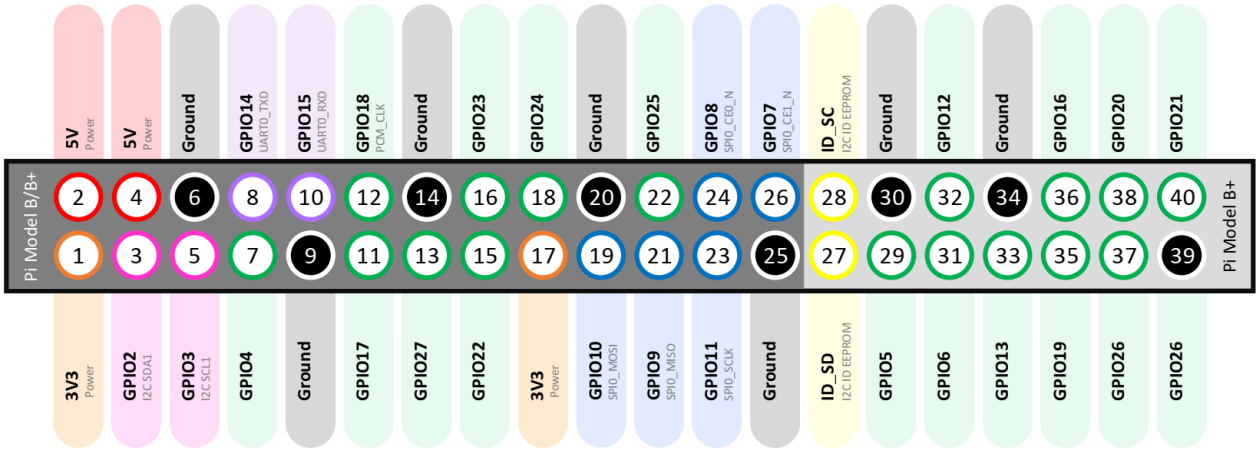
The DACBerry400 range is a high-resolution soundcard with gold platting and matte black finish. It fits discretely onto the back of the Pi400, avoiding clutter of cables and fixtures used with other possible solutions. It is also usable with Raspberry Pi boards, plugging directly onto the GPIO header. DACBerry400 S supports both audio out (headphones, line-out) and audio in (MIC).

Specifications		
Model		DBR400S
DAC	-	102dB SNR @96kHz / 32 bits
ADC	-	92dB SNR @96kHz / 32 bits
THD+N		0.006 % @1kHz
Features	-	- Integrated DSP - 3D, Bass, Treble, EQ, or De-Emphasis Effects - Ultra-Low-Power Mode With Passive Analog - Bypass - Programmable I/O Analog Gains - Automatic Gain Control (AGC) for Record - Programmable Microphone Bias Level - Headset auto-detect - High Power Outputs
Inputs	-	1x mic in on headset/headphone connector
Outputs	-	1x stereo on headset/headphone connector
Top header connector	-	NOT Included / NOT soldered
Case	-	NOT Included
Weight	-	25g
Size WxHxD	-	77 x 20x 20 mm

GPIO Usage

Raspberry Pi 400 uses the same GPIO Pinout like the rest of Raspberry Pi devices, however, be aware that the Pin 1, is located on the right-top side.

Pi GPIO for reference:



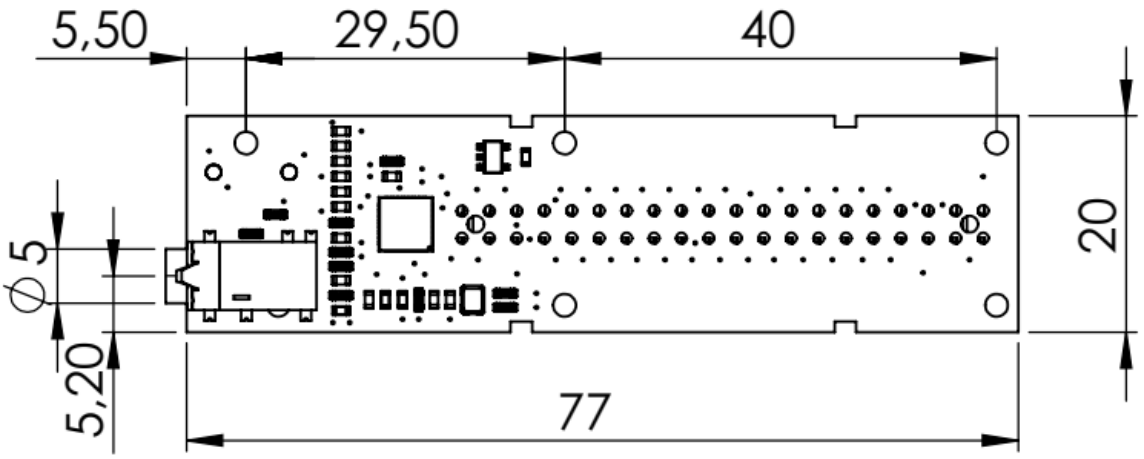
DACBerry 400 Series:

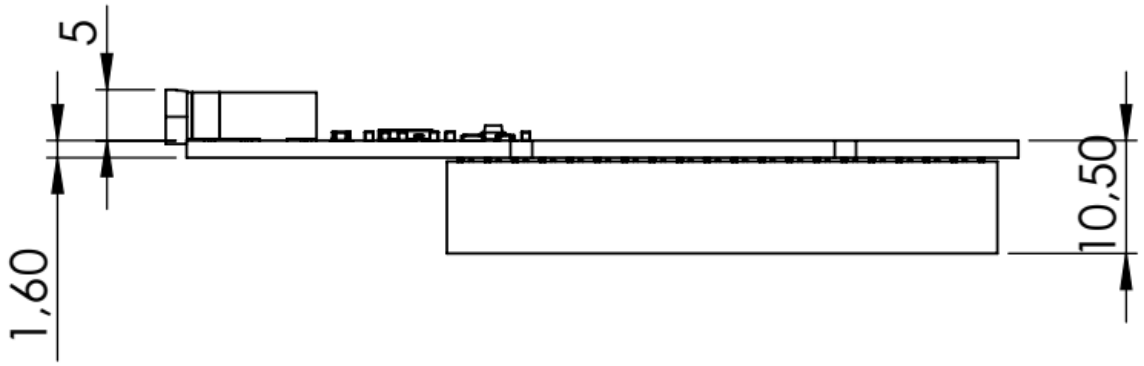
- GPIOs 2-3 (Pins 3, 5) are used by our products for configuration. If you are experienced with I2C, you might add other slave devices. If you are a novice, we don't recommend this at all.
- GPIOs 18-21 (Pins 12, 35, 38 and 40) are used for the sound interface. You can't use them for any other purpose.
- GPIO 26 (Pin 37) is used for Board reset function. You can't use it for any other purpose.

Mechanical Specifications

The DACBerry 400 S is a compact 77 × 20 x 20mm board.

- 4 × M2 Mounting holes
- PCB thickness 1.6mm ± 10%





*All dimensions in mm

Packaging

DACBerry 400 Series boards are supplied in individual cardboard boxes. These have an internal ESD coating so that a separate ESD bag is not required. This packaging is recyclable and reduces waste.

EAN-13

Compliance

All DACBerry 400 Series boards have undergone extensive compliance testing, for more information see the Compliance Information Page

Support

For support and/or device configuration, please see the documentation tab on the DACBerry 400 product page, inside the OSA Electronics website.

osa.to/fy8l