

Products
Amlogic S905
ODROID-C2
Exynos5 Octa
ODROID-XU4
Amlogic S805
ODROID-C1+
ODROID-C0
Display
ODROID-VU8C
ODROID-VU5
ODROID-VU7 Plus
ODROID-VU7
3.5inch Touchscreen Sh
C1 3.2inch TFT+Touchsc
16x2 LCD + IO Shield
LED Matrix Shield
ODROID-SHOW2
Power Supply & Battery
SmartPower2
RTC Backup Battery
RTC Shield
UPS2 for C1
UPS3
5V/2A Power Supply
5V/2A Power Supply EU
5V/2A Power Supply US
5V/4A Power Supply
5V/4A Power Supply
5V/4A Power Supply
5V/6A Power Supply Uni
3000mAh Battery
750mAh Battery
Cases
ODROID-C2/C1+ Cases
ODROID-XU4 Cases
VuShell for VU7

Products

Obsolete products > [HiFi Shield for C2/C1+ \[HiFi Shield for C2/C1+\]](#)

Feature

HiFi Shield for C2 / C1+

Works with the ODROID-C2 / C1+. This is not compatible with the original ODROID-C1.

The HiFi Shield provides both stereo RCA connectors and a 3.5mm stereo jack (all gold-plated) to connect to external amplifiers and ot DAC chip, it supports 16, 24, 32 bit audio formats with minimal distortion (-93dB) and ideal dynamics (110dB+), plus amazing sampling

Using the new I2S expansion on the C2 / C1+, we save a USB port and allow the user to select their audio playback system of choice, i.e. HiFi audio playback.

Functional introduction:

1. The DAC chip uses a high-end PCM5102 chip from Burr-Brown company (now part of TI) which utilizes the I2S interface. It supports 16, 24, 32 bit audio formats with minimal distortion (-93dB) and ideal dynamics (110dB+), plus amazing sampling rates of 384kHz.
2. The output ports include gold-plated stereo RCA terminals and a 3.5mm audio jack.
3. An ultra-low noise dropout regulator is coupled with two solid capacitors for the power supply, significantly reducing power supply noise and greatly increasing the signal to noise ratio.
4. The I2S interface allows for direct decoding of the digital input to analog output using master clock synchronization.
5. The PCB surface is comprised of gold-plating on top of 2 oz. of copper, ensuring signal continuity and reducing signal reflection and refraction.

- Official Volumio OS support : <https://volumio.org>
- Official Runeaudio OS support : <https://runeaudio.com>
- PCB mechanical drawings (AutoCAD format) : [Download HERE](#)
- Schematics : [Download HERE](#)

* This HiFi shield is not functional with Android. We have no plan to support the Android OS to enable the I2S driver for Android Kernel and HAL.

[Buy Now](#)

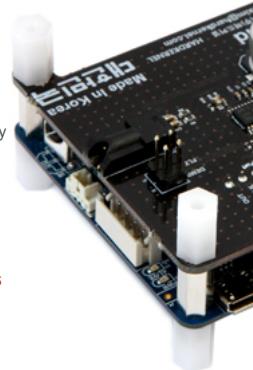
\$39.00

Worldwide shipping

[구매](#)

46,800원(부가세 별도)

한국 배송(Korean only)



Package include

- C2/C1+ HiFi Shield
- 4 x 11mm PCBs
- 8 x 10mm PCBs

3.5inch LCD Shield Cas

Connectivity

IR Remote Controller

WiFi Module 0

WiFi Module 3

WiFi Module 4

WiFi Module 5

Bluetooth Module 2

Ethernet Cable CAT6

USB GPS Module

Camera

USB-CAM 720P

oCam : 5MP USB 3.0 Cam

oCam-1MGN-U : Global S

M12 Lens Set : 8/6/3/2

M12 Lens Set : 8/6/3/2

Tripod mount for oCam

Development

C Tinkering Kit

USB-UART Module Kit

Xprotolab Plain

Sound

HiFi Shield 2

HiFi Shield Plus

USB Audio Adapter

USB-SPDIF

Connector

Micro USB-DC Power Bri

Connector Pack for ODR

30pin and 12pin Header

Add-on Boards

CloudShell for XU4

Expansion Board

USB IO Board

XU4 Shifter Shield

Universal Motion Joypa

USB3.0 to SATA Bridge

U3 IO Shield

U3 Shield Tinkering Ki

Sensor

myAHRS+

Weather Board 2

Cooler

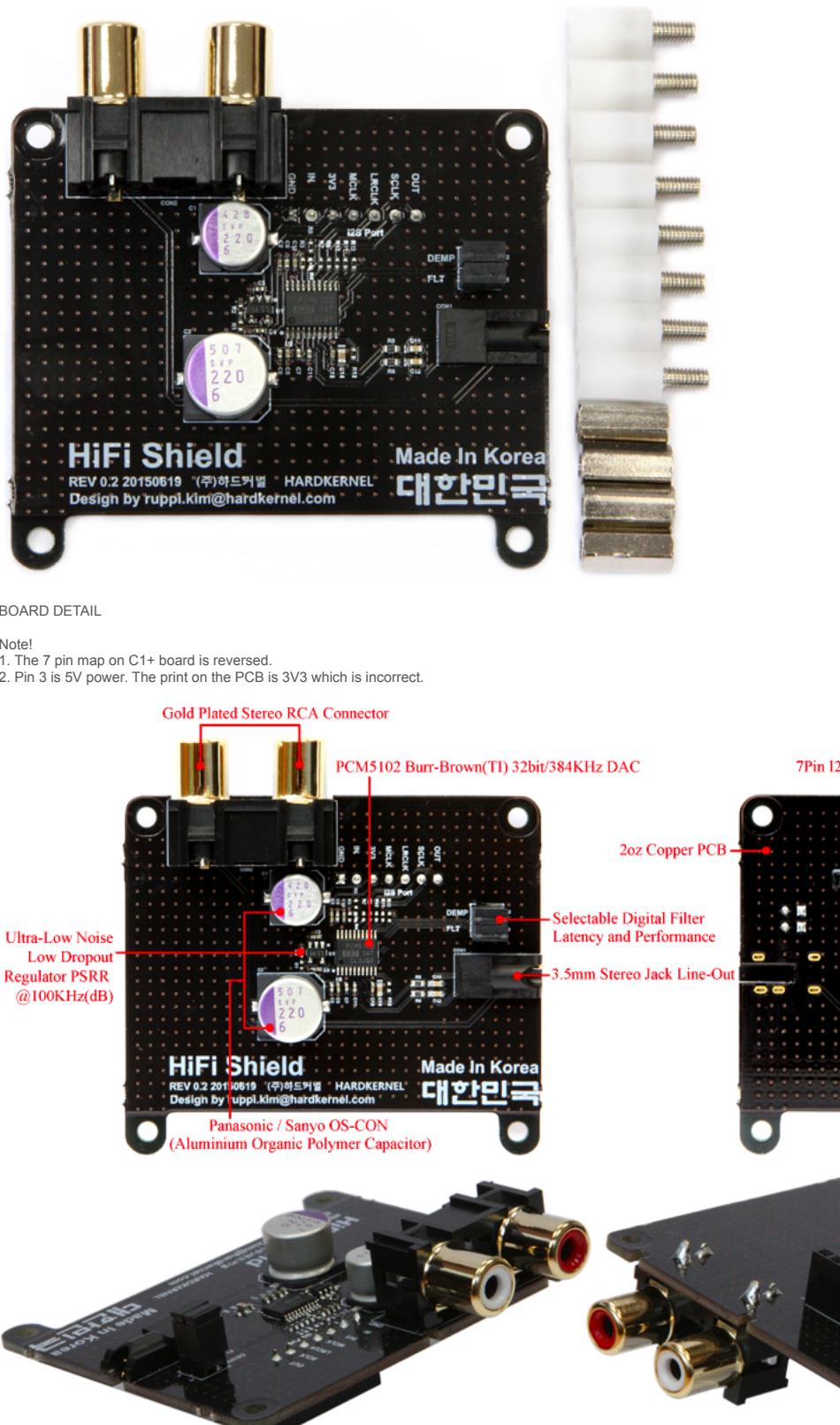
40x40x25mm Tall Blue H

C1 Heat Sink

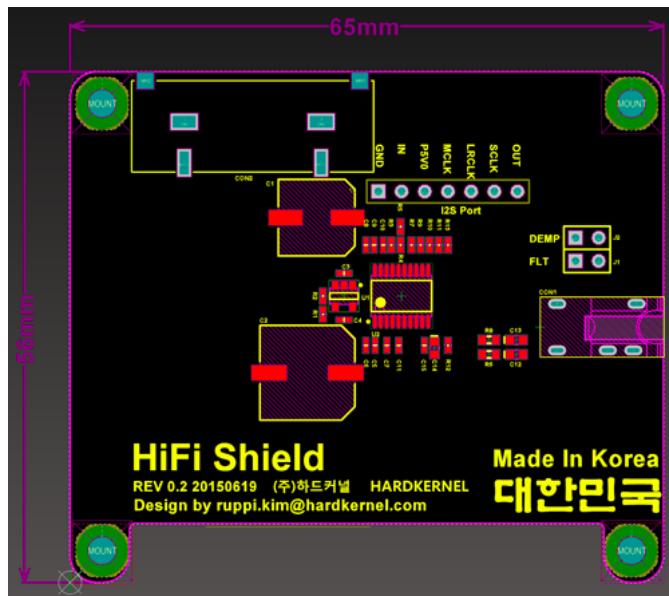
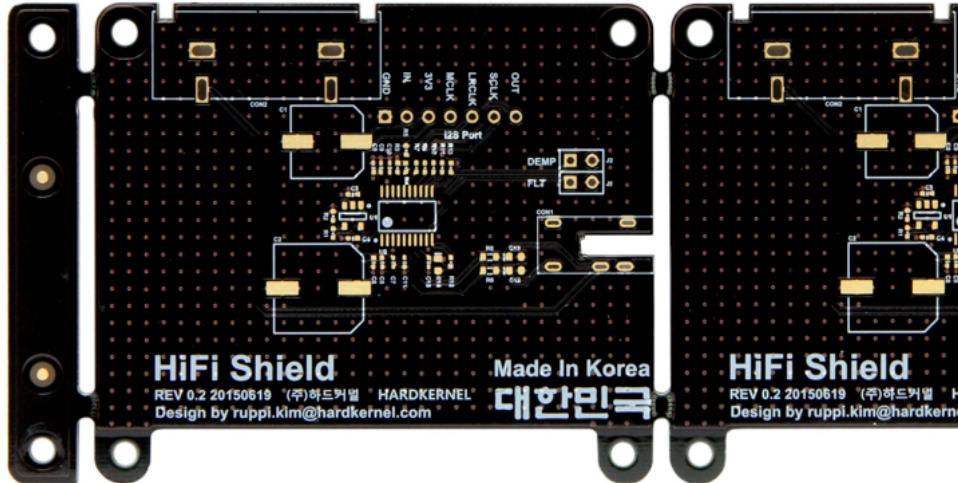
Cooling Fan U2

Cooling Fan U3

Cooling Fan X



Cooling Fan XU4 Blue
Cables
HDMI 2.0 Cable (Type A)
HDMI Cable (Micro, Typ
HDMI Cable (Type A-A)
USB3.0 Micro-A to Stan
Micro USB Cable
USB3.0AM to Micro USB
DC Plug Cable Assembly
USB-DC Plug Cable 2.5m
USB2.0 OTG Cable
OS Preinstalled Flash Memory
eMMC Module C2 Linux B
eMMC Module C2 Android
MicroSD C2 Linux
MicroSD C2 Android
eMMC Module XU4 Linux
eMMC Module XU4 Andro
MicroSD XU4 Linux
eMMC Module C1+/C0 Lin
eMMC Module C1+/C0 And
MicroSD C1+/C0 Linux
MicroSD C1+/C0 Android
eMMC Module Reader Boa
Others
Others
Obsolete products
ODROID
ODROID-7 Full Package
ODROID-A4 Full Package
ODROID-PC Full Package
ODROID-S
ODROID-T
ODROID-A Full Package
ODROID-U3
ODROID-U2
ODROID-X2
ODROID-E7 Full Package
ODROID-Q2
ODROID-XU3 Lite
ODROID-XU3
ODROID-XU
ODROID-X
ODROID-XU Lite
ODROID-C1
ODROID-Q



ODROID-C2 / C1+ 7PIN I2S PINMAP

ODROID-C2/C1+ 7pin Layout

HEADER	Label
1	GND
2	I2S Data In (for ADC)
3	5V
4	I2S MCLK (Master Clock)
5	I2S LRCLK (LR Clock)
6	I2S SCLK (Bit Clock)
7	I2S Data Out (for DAC)

Feel the sound!! The nostalgic 20 year-old Macintosh analog amplifier meets 21st century audiophile.

ODROID-XU+E
Smart Power
HiFi Shield for C2/C1+
ODROID-UPS
ODUINO One
UPS2 for U3
Weather Board
ODROID-VU
ODROID-Show
ODROID-W



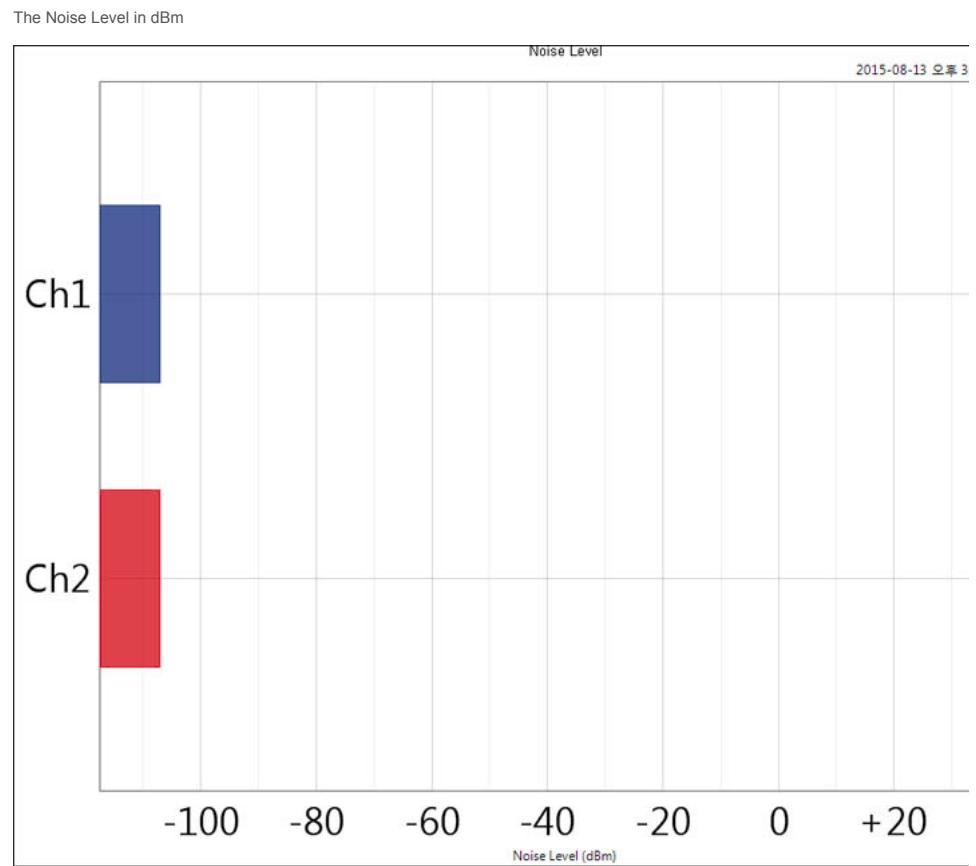
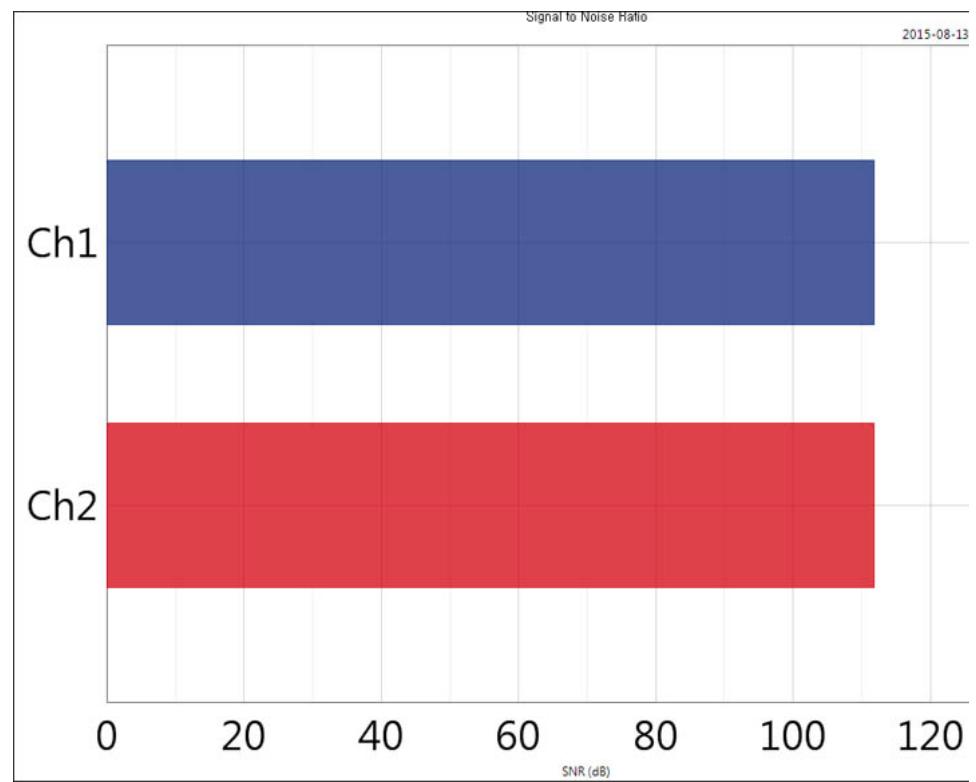
The C2/C1+ HiFi Shield is a high-resolution Digital to Analog Converter(DAC) for the ODROID-C1+. This is a special sound card for the **audio playback quality**. It delivers a nicely balanced sound, solid, deep, wide and nicely layered.

We've analysed the the audio quality of the HiFi Shield DAC output with the famous industry standard equipment, Audio Precision. The analyser optimized for the digital audio product.

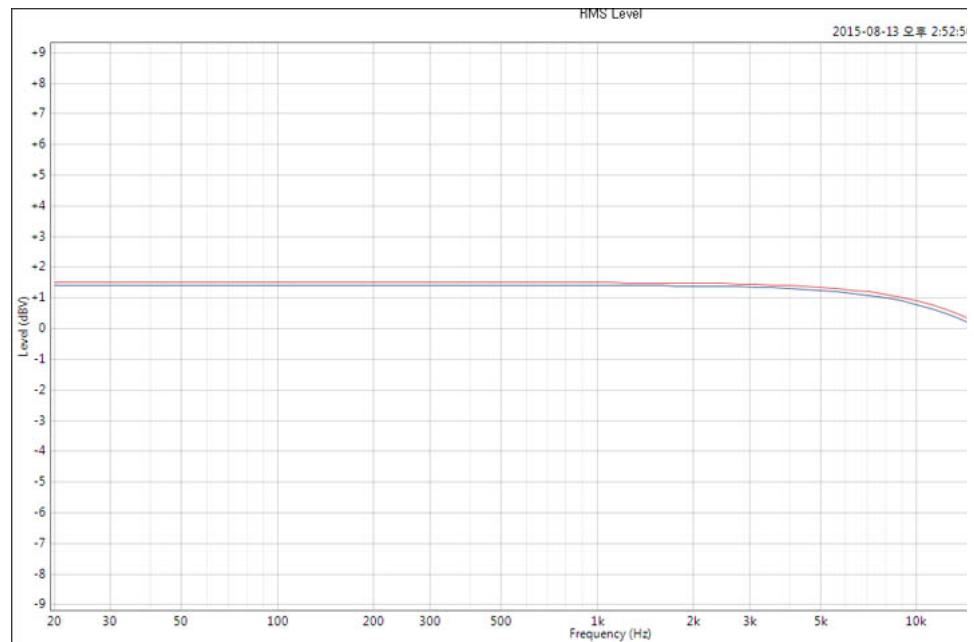
The analog output of the HiFi Shield is connected to the equipment and measurement data shows on the host PC.
This picture shows a basic configuration of the set-up. Note that I disconnected the external amplifier when we measured the line-out at



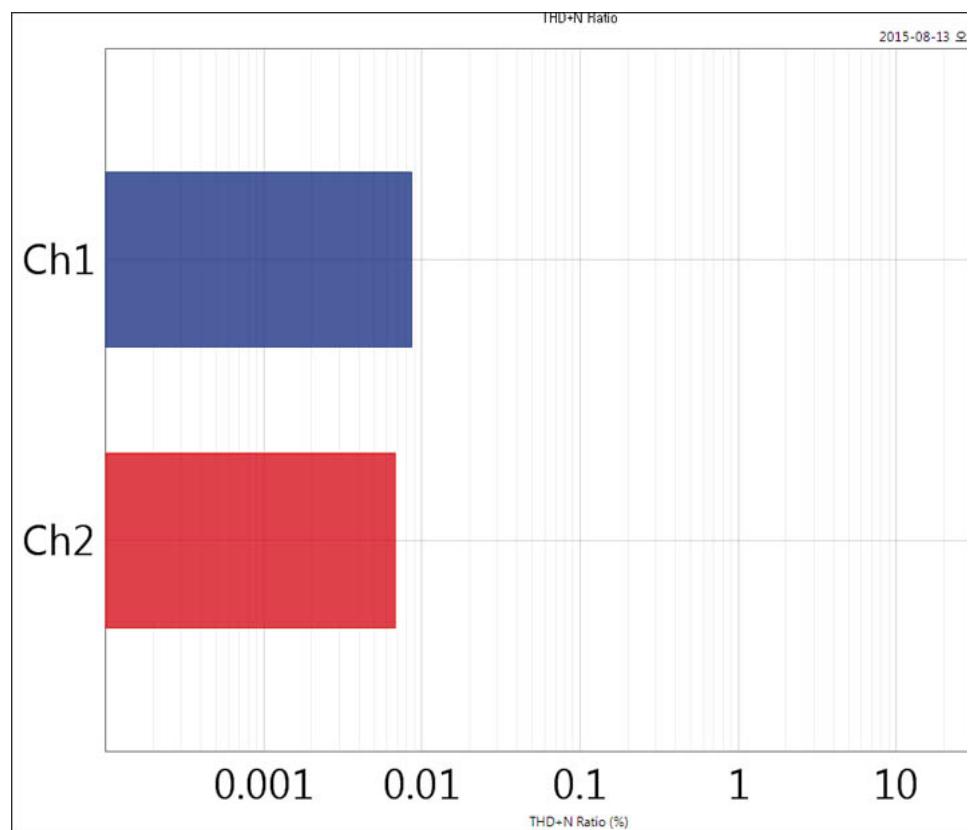
The Signal to Noise Ratio (SNR)



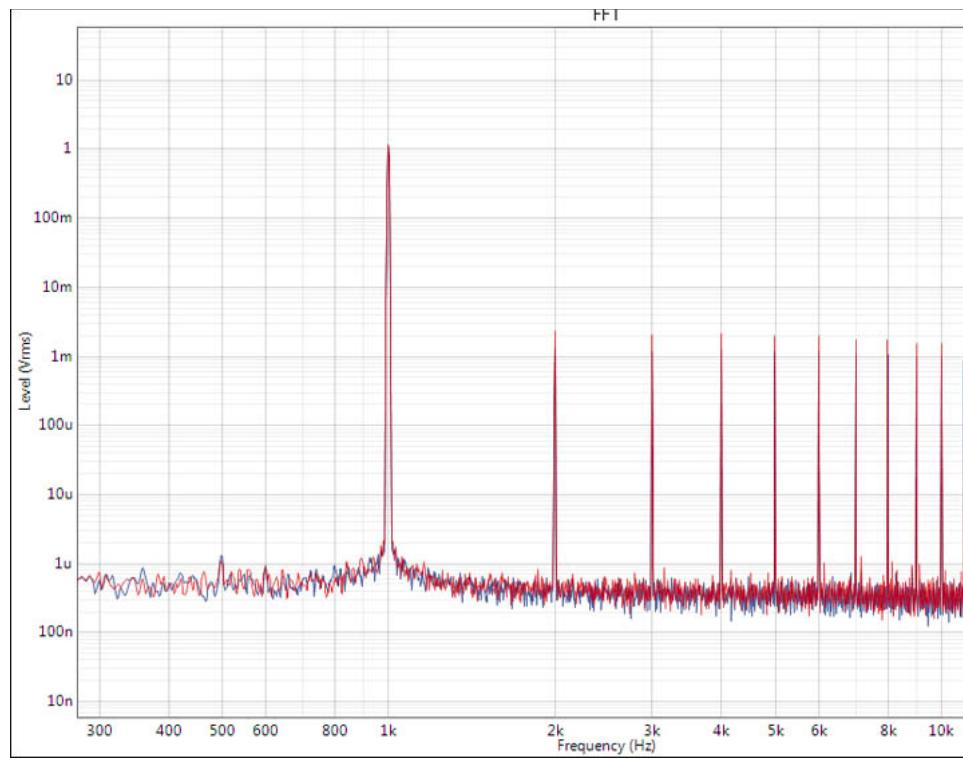
The Frequency Response and RMS output level in dBV



The Total Harmonic Distortion + Noise Ratio (THD+N)



The FFT spectrum analyzer for 1Khz signal



This is a great idea if you want an audiophile set-up with ODROID-C2/C1+. Enjoy a variable output connecting directly into a p



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