

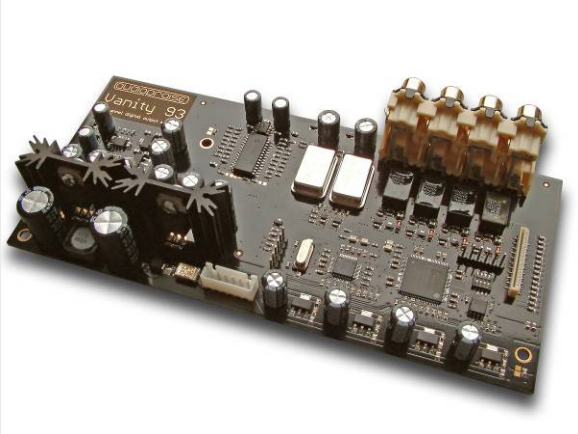


VANITY⁹³ & VANITY⁹³ Lite

The Vanity93 and Vanity93_Lite are upgrade modules that can simply replace the analogue output circuit board of the Oppo BDP-93 with full resolution digital outputs. They enable the user to turn the player into an eight-channel digital audio transport which supports all audio formats including Blu-Ray, SACD and DVD-A.

Vanity⁹³

This heavily engineered audiophile module features custom DSD to PCM conversion algorithms and a state-of-the-art jitter reduction system. The result is a reference quality digital audio signal suitable for the most demanding applications of a multichannel digital playback.



SPECIFICATIONS

8 channel S/PDIF Output

- protocol: S/PDIF (IEC958 / EIAJ CP1201)
- type: 75Ω re-clocked transformer isolated RCA coaxial
- format: linear PCM stereo
- supported sampling rates: 44.1/48/88.2/96/ 176.4/192kHz
- supported bit depths: 16 / 24bit

S/PDIF Re-clocking

- 2x custom low jitter onboard VCXO
- digitally controlled frequency tuning, $f_c < 1\text{Hz}$
- ultra low-noise power regulators for VCXO and TX circuits

High Quality DSD to PCM Conversion

- custom developed Zero Alias Linear Phase Filter
- 37bit arithmetic / 47bit accumulator
- output sample rates: 88.2kHz / 176.4kHz
- 4 selectable DSD to LPCM filter characteristics
- full precision 4.0 DSD down-mix option

User Configurable Functionality

- DSD to LPCM output sampling rate: 88.2kHz / 176.4kHz
- output bit depth settings: 16 / 24bit
- dedicated DSD 4.0 down-mix enable / disable
- 4 user selectable DSD to LPCM filter characteristics #1 / #2 / #3 / #4
- data jitter reduction: OFF / stage 1-3

Vanity⁹³ Lite

Very attractive pricing makes this module affordable to everyone in need of a high resolution digital signal source. This includes owners of stand-alone DACs, digital amplifiers, room correction processor, etc.



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DSD to PCM Conversion

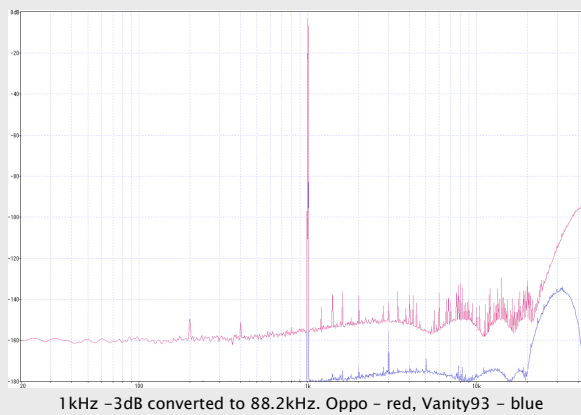
- conversion to 88.2kHz/24bit provided by the player
- all down-mix options provided by the player

Vanity93_Lite is also available for OEM market with visual customization. Various solder mask colors (default green) and customer's logo can be applied. Such a customization is subject to MOQs.

Installation

The installation of the Vanity93 and Vanity93_Lite modules is very easy and fully reversible. No soldering or back panel drilling is necessary. Modules are designed to simply replace the original board with analog outputs.

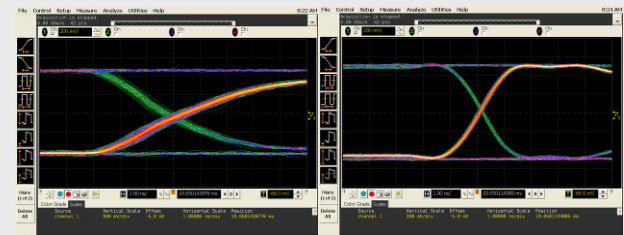
High Quality DSD to PCM Conversion



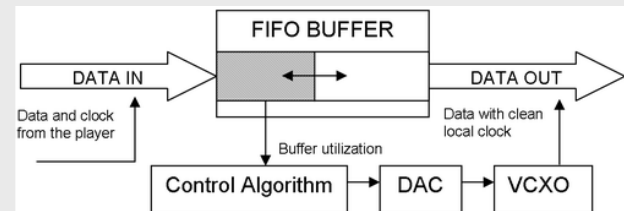
The custom DSD to PCM conversion algorithm preserves maximum quality of high definition SACD recordings. All unwanted ultrasonic noise is attenuated without affecting the audio signal.

The Vanity93 implements also DSD down-mix algorithm to cover widely used 4.0 speaker configuration in the maximum quality.

Jitter Reduction and Re-clocking.



Eye diagram of the output S/PDIF signal. Oppo – left, Vanity93 – right



Audio data from the player is buffered in FIFO memory and clocked out with local high precision oscillators. As a result, the output signal is completely isolated from the noisy environment inside the player – interferences from the power supplies, video circuits, disc reading mechanism, etc.

Key Features

- 8 channel digital output via S/PDIF
- Full resolution up to 24 bits and 192 kHz
- Custom DSD to PCM conversion (Vanity93)
- Full resolution DSD 4.0 down-mix (Vanity93)
- Advanced jitter attenuation (Vanity93)
- Easy and reversible installation
- Full technical support



Vanity93 installed in Oppo BDP-93

Support

Detailed installation and settings manuals and full product presentation are available online [<http://audiopraise.com/vanity93/overview.php>]. There is also a dedicated online discussion board [<http://www.audiopraise.com/forum/list.php?6>].

Pricing

Suggested retail unit prices for both modules are shown in the table. We offer attractive pricing for dealers as well as price breaks for multiple orders.

Contact

Please use our standard address for email inquiries: ap@audiopraise.com. Should you have any questions, don't hesitate to contact us!



Vanity⁹³: €725

Vanity⁹³ Lite: €185