miniDSP is proud to introduce the SHD Studio ("Streaming High Definition") digital audio processor incorporating Dirac Live®, the world’s premier room correction solution. While physically the SHD Studio is the “baby brother” of the full-featured SHD — accomplished by removing the analog I/O connectors and circuitry — internally it packs the same powerful audio processing capabilities.

The miniDSP SHD Studio is a certified Roon Ready network player. Being Roon Ready means that miniDSP uses Roon streaming technology, for an incredible user interface, simple setup, rock-solid daily reliability, and the highest levels of audio performance, without compromise. The quad-core streaming processor in the SHD Studio also runs Volumio, a popular open-source network streamer, providing web-based access to music files from sources as diverse as a USB stick to Internet Radio and Spotify.

The SHD Studio fits right into any digital processing path, with AES/EBU, SPDIF, optical and USB audio inputs, and four output channels on both SPDIF and AES/EBU.

The SHD Studio includes a suite of our powerful but user-friendly DSP audio tuning software - ten-band parametric EQ per channel, crossovers up to 48 dB/octave, compressor/limiter, and a flexible 2x4 matrix mixer. Applications range from subwoofer integration to a two-way active speaker. Outputs 3 and 4 also drive the headphone jack on the front panel for a uniquely flexible digital processing solution.
# HARDWARE SPECIFICATIONS

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<th>Item</th>
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| **Digital Signal Processor**  | 32-bit Floating point Analog Devices SHARC ADSP21489 / 450MHz  
Internal sample rate: 96kHz |
| **Control**                   | Driverless USB 2.0 control interface for Windows environments  
A computer is only required for the initial configuration and for USB audio streaming |
| **Network Audio Streamer**    | Certified Roon Ready network player, Volumio Audiophile player, Quad Core ARM processor, Gb Ethernet, USB 2.0 for external Hard drive |
| **USB audio**                 | XMOS asynchronous USB audio up to 192 kHz, USB Audio Class 2 compliant  
- ASIO drivers for Windows  
- Driverless for Mac OS X |
| **Digital Audio Inputs**      | Digital audio source selectable from IR remote or Front panel, up to 216 kHz sample rate:  
- AES/EBU on Neutrik 3-pin female XLR / Isolated with digital audio transformer  
- SPDIF on RCA connector / Isolated with digital audio transformer  
- TOSLINK on Optical connector |
| **Digital Audio Outputs**     | Four channels of digital output. Both sets are active simultaneously.  
- 2 x AES/EBU on Neutrik 3-pin male XLR / Isolated with digital audio transformer  
- 2 x SPDIF on RCA connector / Isolated with digital audio transformer |
| **Headphone Output**          | Stereo headphone output follows channels 1&2. 6.35mm jack.  
- ASIO drivers for Windows  
- Frequency response: 20 Hz to 20 kHz +/- 0.2 dB.  
- Signal-to-noise ratio: 112 dB (32 Ω load, 1 kHz, A-weighted, digital in 0 dB)  
- THD+N: 0.001% (32 Ω, 1 kHz, 65 mW + 65 mW, mid gain)  
- Supported headphone impedance: 16 – 600 Ω |
| **miniDSP DSP Processing**    | Volume, Parametric Equalizer banks, Crossovers, Matrix mixer, Compressor/Limiter, Mute |
| **Dirac Live 3 room correction** | Plug&Play control and configuration from Dirac Live application, full-range stereo processing |
| **Filter storage**            | Four onboard presets, selectable by remote control |
| **USB port**                  | USB port type B for audio streaming, real time control and firmware upgrade |
| **Power supply**              | 12V DC external supply, EU/US/AU/UK plug adaptors provided |
| **Dimensions [H x W x D] mm**  | 41.5 x 214.5 x 206 mm / 1RU half size / Optional full rack mount adaptor available |

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# MECHANICAL SPECIFICATIONS

![Diagram of the mechanical specifications](image-url)

Features and specifications are subject to change without prior notice.