Features
- Dirac Live® Room Correction
- 32bit/96 kHz processing
- Tidal/Qobuz/Spotify/Roon streaming supported
- All in One Amplifier + DSP

Hardware
- 450MHz SHARC DSP
- Multicore XMOS Controller
- Quad Core 1.2GHz ARM core
- Stereo digital inputs and outputs (AES-EBU/SPDIF/Optical)
- 2x120W internal amplifier(4/8Ω) with very low THD+N
- 2x unbalanced RCA output
- Front panel volume control and OLED display

Software Control
- Dirac Live® Room Correction
- miniDSP DSP control toolbox
- Volumio Network Audio player
- 4 onboard preset memories

Applications
- Stereo room correction
- 2.1/2.2 All in One systems

miniDSP is proud to introduce the latest member of the SHD ("Streaming High Definition") processor family. As with all SHD Series processors, the **SHD Power** includes Dirac Live®, the world's premier room correction solution, and a full suite of miniDSP's powerful but user-friendly audio tuning software. Dirac Live calibration uses our popular UMIK-1 microphone and Dirac's easy-to-use calibration tool.

The SHD Power includes a 120W per channel low-distortion power amplifier for powering main speakers, and two additional analog outputs for connecting a subwoofer or subwoofers. With three digital inputs and high-resolution USB Audio, the SHD Power is the ideal modern integrated amplifier, all packed into an unbelievably compact metal enclosure.

We have also included network streaming over Ethernet or Wi-Fi, powered by a dedicated quad-core ARM processor. Out of the gate, we are shipping with Volumio, a popular open-source network streamer. Volumio gives you access to music files from sources as diverse as a USB stick, to files stored on your local network, to Internet Radio and Spotify.

TYPICAL APPLICATION
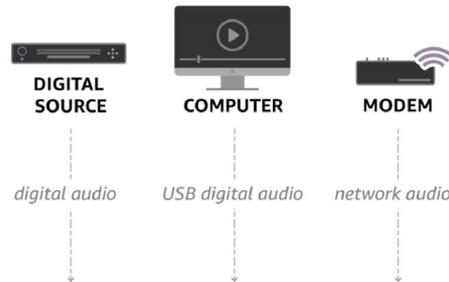
HARDWARE SPECIFICATIONS

Item	Description
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	Quad Core ARM 1.2GHz processor, Gb Ethernet, USB 2.0 for external Hard drive Volumio Audiophile player, Tidal/Qobuz/Spotify/Roon streaming support
Bidirectional USB Audio	XMOS asynchronous USB audio up to 192 kHz, USB Audio Class 2 compliant • ASIO drivers for Windows • Driverless for Mac OS X • Bidirectional audio / 2ch playback (PC to SHD), 4ch recording post processing (SHD to PC)
Digital Audio Inputs	Digital audio source selectable from IR remote or Front panel, up to 216 kHz sample rate: • AES/EBU on Neutrik 3pin 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. • 2 x AES-EBU on XLR connectors / Isolated with digital audio transformer.
Amplifier specifications	2x120W RMS (8Ohm/4Ohms) THD+N < 0.005% (f=100Hz, 1W to 100 W, RL=8 Ω and RL=4 Ω) THD+N < 0.03% (f = 20 Hz to 20 kHz, 60mW to 100 W, R_L=4 Ω) THD+N < 0.07% (f = 20 Hz to 20 kHz, 60mW to 100 W, R_L=8 Ω) SNR >110dB (at 1kHz A-weighted, 120W in 8Ω) Frequency response: 10 Hz – 30 kHz +/- 0.5dB CrossTalk: <-95dB(1kHz)
Analog Audio outputs	2 channel audio output, unbalanced on RCA 32bit DAC, 120dB SNR measured / 0.0007% THD+N (Digital to balanced analog) Frequency response: 10 Hz – 30 kHz +/- 0.2dB Max output level: 1.7V RMS unbalanced
miniDSP DSP Processing	Volume, Parametric Equalizer banks, Crossovers, Matrix mixer, Compressor/Limiter, Mute
Dirac Live Correction Suite for miniDSP	Plug & Play control and configuration from Dirac Live Correction Suite, full range correction
Filter storage	Up to 4 filter configuration filters stored on unit
USB port	USB port type B for audio streaming, real time control and firmware upgrade
Power supply	100~240V AC universal power supply
Dimensions (HxWxD)	70 x 215 x 225 mm (2.75-8.5-8.8 in)

REAR PANEL VIEW