

Features

- High-resolution audio processor
- 2-way HDMI switch
- Floating-point DSP
- HDMI PCM de-embedder

Hardware

- ADI SHARC ADSP21479
- 32-bit floating-point processing
- Dual HDMI 1.4 input
 - Audio and video switching
 - 3D support
 - HDCP support
- Single HDMI 1.4 output
- 8 channel RCA audio out
- Front panel preset selection
- IR control with learning feature

Software Control

- Real time live control over USB 2.0 or Ethernet
- Windows & Mac compatible
- Android remote app
- Firmware upgradeable

Power

- Single external 5 VDC supply
- Low power consumption

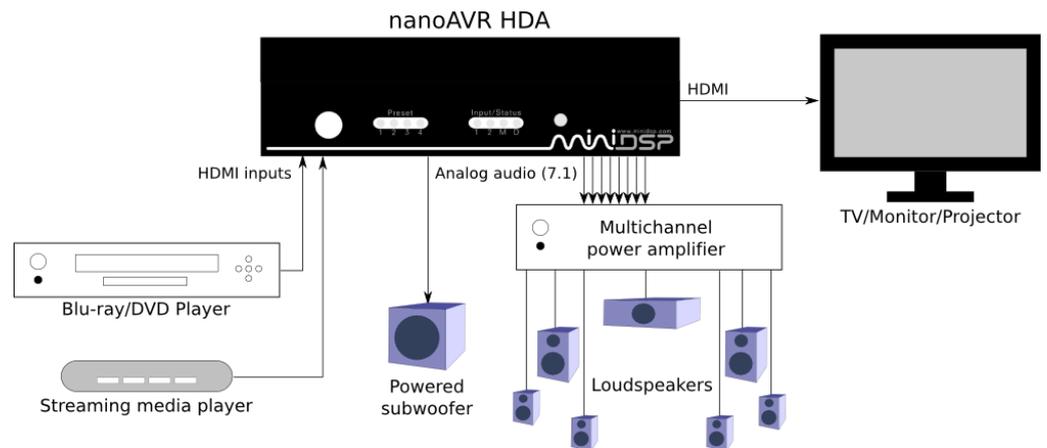
Applications

- Home theater room tuning
- Bass management
- Commercial AV

The miniDSP **nanoAVR HDA** is a high-resolution 8-channel digital audio processor combined with a 2x1 HDMI audio and video switch and 8-channel D/A convertor. The floating-point SHARC digital signal processor (DSP) at the core of the nanoAVR HDA 8 channels of uncompressed audio over HDMI (Linear PCM) and provides the processed output over both HDMI and through eight RCA analog connectors.

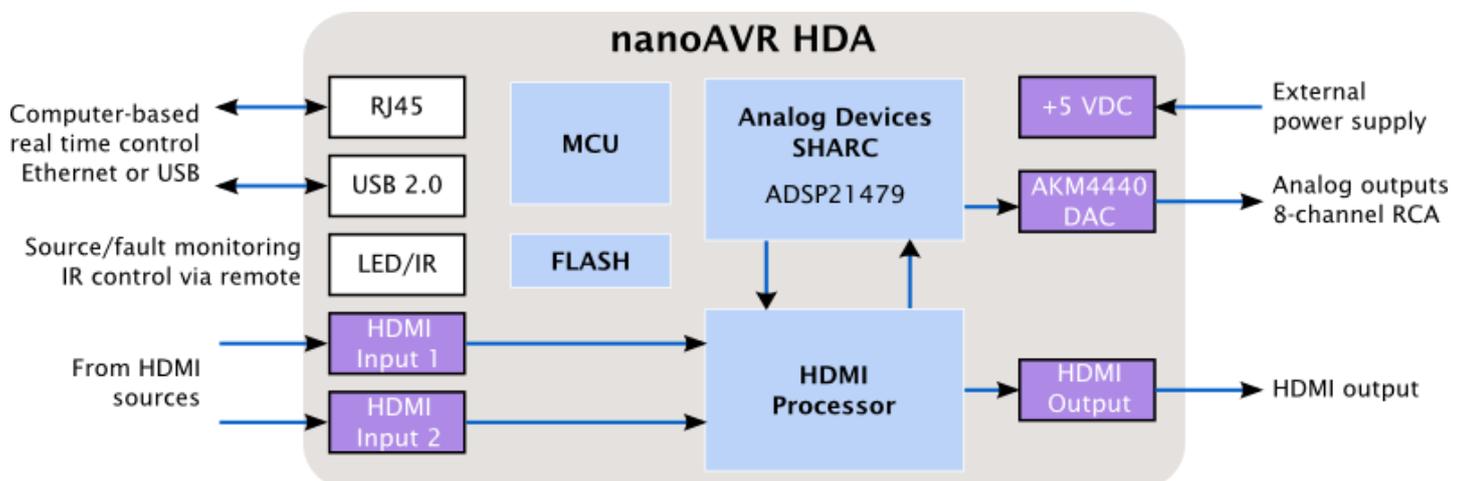
The onboard audio processing is accessed via miniDSP's powerful and friendly user interface. Channel routing, powerful and flexible bass management, independent crossovers and 10 bands of parametric equalization on every channel, time alignment... from tuning a subwoofer to time-aligning and equalizing a full 7.1 system, this diminutive processor provides all the audio processing flexibility our brand is known for.

The user-friendly PC/Mac software allows real time configuration of the nanoAVR HDA via USB (short distance) or over Ethernet (LAN). Combine with 3rd-party software like Room EQ Wizard and a miniDSP UMIK-1 USB measurement microphone to measure and tune all channels of a home theater or multi-channel audio system. Once configured, all settings are stored and can be selected from the front panel, infrared remote, or Android app.



Typical usage example of the nanoAVR HDA

SYSTEM DIAGRAM



HARDWARE SPECIFICATIONS

Item	Description
Digital Signal Processor	32-bit floating-point Analog Devices SHARC ADSP214749 / 266MHz
Control	A computer is only required for the initial configuration via USB or Ethernet: <ul style="list-style-type: none"> • Driverless USB 2.0 control interface for Windows and Mac OS X • Ethernet control (RJ45 / 100Mbps) with ZeroConf support (Auto-IP/DHCP)
HDMI Inputs	2 x HDMI 1.4a selectable from software, front panel or IR remote
HDMI Outputs	1 x HDMI 1.4a output
Analog Outputs	8 x unbalanced analog outputs on gold-plated RCA connectors AKM AK4440 multichannel DAC chipset 2 Vrms output level / DAC sample rate is 96kHz
Audio sample rate / Resolution	Input/output resolution: 24-bit (32-bit internal) Maximum input sample rate: 192 kHz DSP internal processing path: 96 kHz
Video support	Video pass-through of selected source (i.e. no video processing) 36-bit / 3D support / HDCP embedded keys
Audio processing	<ul style="list-style-type: none"> • Matrix mixer for routing of audio • 10-band parametric equalizer per channel (peak/notch/low&high shelf) • Per channel time delay for time alignment • Per channel gain control • Per channel real time monitoring
Storage/Presets	All settings controllable in real time from software user interface Up to 4 presets stored in local flash memory
Infrared remote	Infrared remote receiver on front panel with "learning remote" capabilities
Smartphone/tablet	Android control app for filter selection, enable/disable, mute, input select, master volume
Firmware	Firmware is user-upgradeable for future proofing
Power supply	5 VDC single supply @ 600 mA, 2.1 mm center-positive
Dimensions (H x W x D)	46 x 161 x 200 mm

MECHANICAL SPECIFICATIONS

