

Features

- High-resolution audio processor
- 2-way HDMI switch
- Floating-point DSP
- Flexible configurations

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
- Front panel preset selector
- IR control with learning feature

Software Control

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

Power

- Single external 5 VDC supply
- Low power consumption

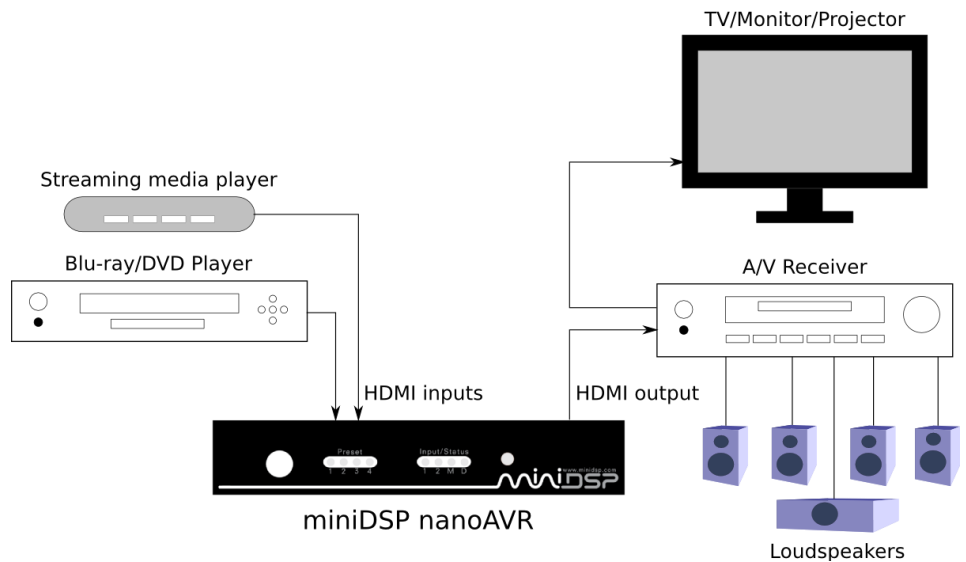
Applications

- Home theater room tuning
- Bass management
- Commercial AV

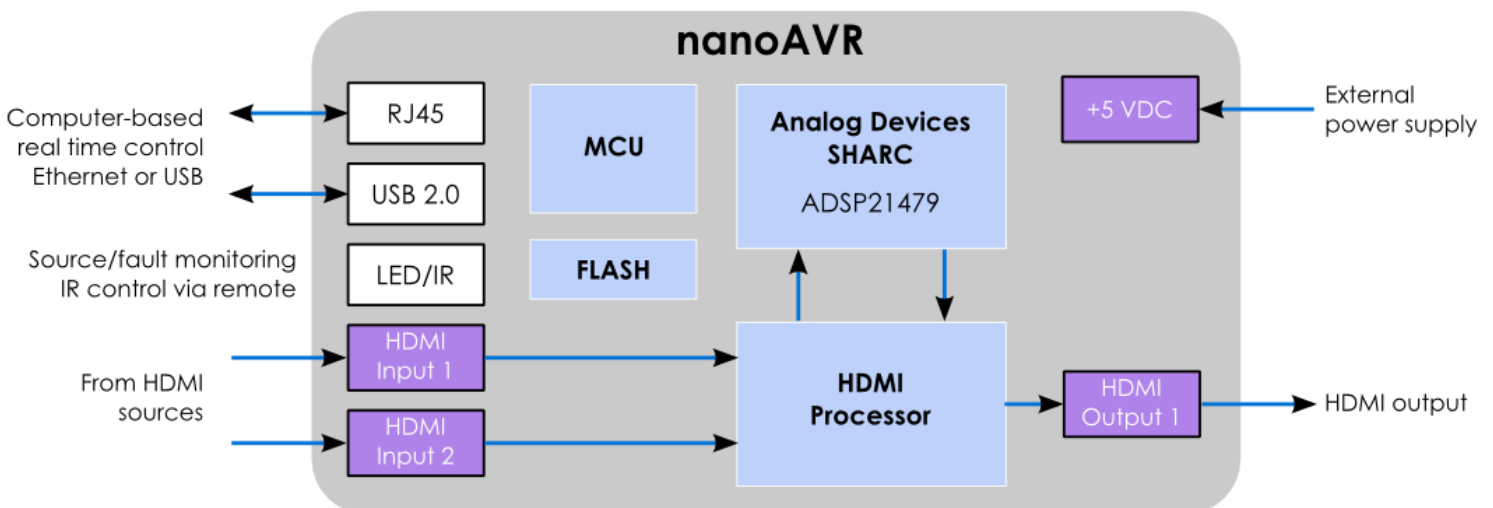
The nanoAVR HD is a 2x1 HDMI audio and video switch combined with a high-resolution 8-channel audio processor. The floating-point SHARC digital signal processor (DSP) at the core of the nanoAVR provides an unmatched level of tuning for up to 8 channels of uncompressed audio (Raw/PCM). Channel routing, independent crossovers and 10 bands of parametric equalization on every channel, time alignment... this pocket-size processor provides all the audio processing flexibility our brand is known for.

In its most typical application, the nanoAVR HD connects between two HDMI sources (Blu-ray or DVD player, media streamer, gaming console) and an A/V receiver. From tuning a subwoofer to time-aligning and equalizing a full 7.1 system, there is no shortage of applications for this little box.

The user-friendly PC/Mac software allows real time configuration of the nanoAVR via USB (short distance) or over Ethernet (LAN). Combined with 3rd-party software like Room EQ Wizard and a USB measurement microphone like the UMIK-1, it is easy 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 with an infrared remote or from the front panel.



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
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
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)	31 x 161 x 200 mm

MECHANICAL SPECIFICATIONS

