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.
### HARDWARE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tr>
<td>Digital Signal Processor</td>
<td>32-bit floating-point Analog Devices SHARC ADSP214749 / 266MHz</td>
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| Control               | A computer is only required for the initial configuration via USB or Ethernet:  
  - 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      |  - 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

![Mechanical Diagram]

Features and specifications are subject to change without prior notice.