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ADAV4422

Audio Processor for Advanced TV with Sound IF Demodulator and Stereo Decoder

 **Obsolete**

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## Key Specifications

- Sound IF (SIF) processor
  - SIF demodulator and broadcast stereo decoder
- Fully configurable 28 bit audio processor - loads comprehensive TV audio flow on reset
- Also supports [SigmaStudio™](#) with Analog Devices Inc and third party branded algorithms for custom design
- High performance 24-bit ADC and DAC
  - 95 dB DNR performance on DAC channels
  - 95 dB DNR performance on ADC channels
  - Dual headphone outputs with integrated amplifiers
- 4 stereo synchronous digital I<sup>2</sup>S® input channels
- 2 stereo asynchronous I<sup>2</sup>S channels with integrated
- SRC supporting input sample rates from 5 kHz to 50 kHz
- 1 stereo synchronous digital I<sup>2</sup>S output

## Product Details

The ADAV43x2/ADAV44x2 are part of a family of enhanced audio processors targeting advanced TV applications, with full support for digital and analog baseband audio as well as multistandard broadcast SIF demodulation and decoding.

The audio processor, by default, loads a dedicated TV audio flow that incorporates full matrix switching (any input to any output), automatic volume control that compensates for volume changes during advertisements or when switching channels, dynamic bass, a

multiband equalizer, and up to 200 ms of stereo delay memory for audio-video synchronization.

Alternatively, Analog Devices offers an award-winning graphical programming tool (SigmaStudio™) that allows custom flows to be quickly developed and evaluated. This allows the creation of customer-specific audio flows, including the use of Analog Devices' library of third-party algorithms.

The analog I/O integrates Analog Devices' proprietary continuous-time, multibit  $\Sigma$ - $\Delta$  architecture to bring a higher level of performance to ATV systems, required by third-party algorithm providers to meet system branding certification. The analog input is provided by 95 dB dynamic range (DNR) ADCs, and the analog output is provided by 95 dB DNR DACs.

The main speaker outputs can be supplied as a voltage out from the integrated DAC channels (ADAV4312 and ADAV4322) or as a digitally modulated PWM stream to support digital amplifiers (ADAV4412 and ADAV4422).

The ADAV43x2/ADAV44x2 include multichannel digital inputs and outputs. In addition, two of the digital input channels can be routed through integrated sample rate converters (SRC), which are capable of supporting any arbitrary sample rate from 5 kHz to 50 kHz.

### Applications

- General-purpose consumer audio postprocessing
  - Home audio
  - DVD-Rs
  - Home-theater-in-a-box (HTIB) systems and DVD receivers
- Audio processing subsystems for DTV-ready TVs
- Analog broadcast capability for iDTVs

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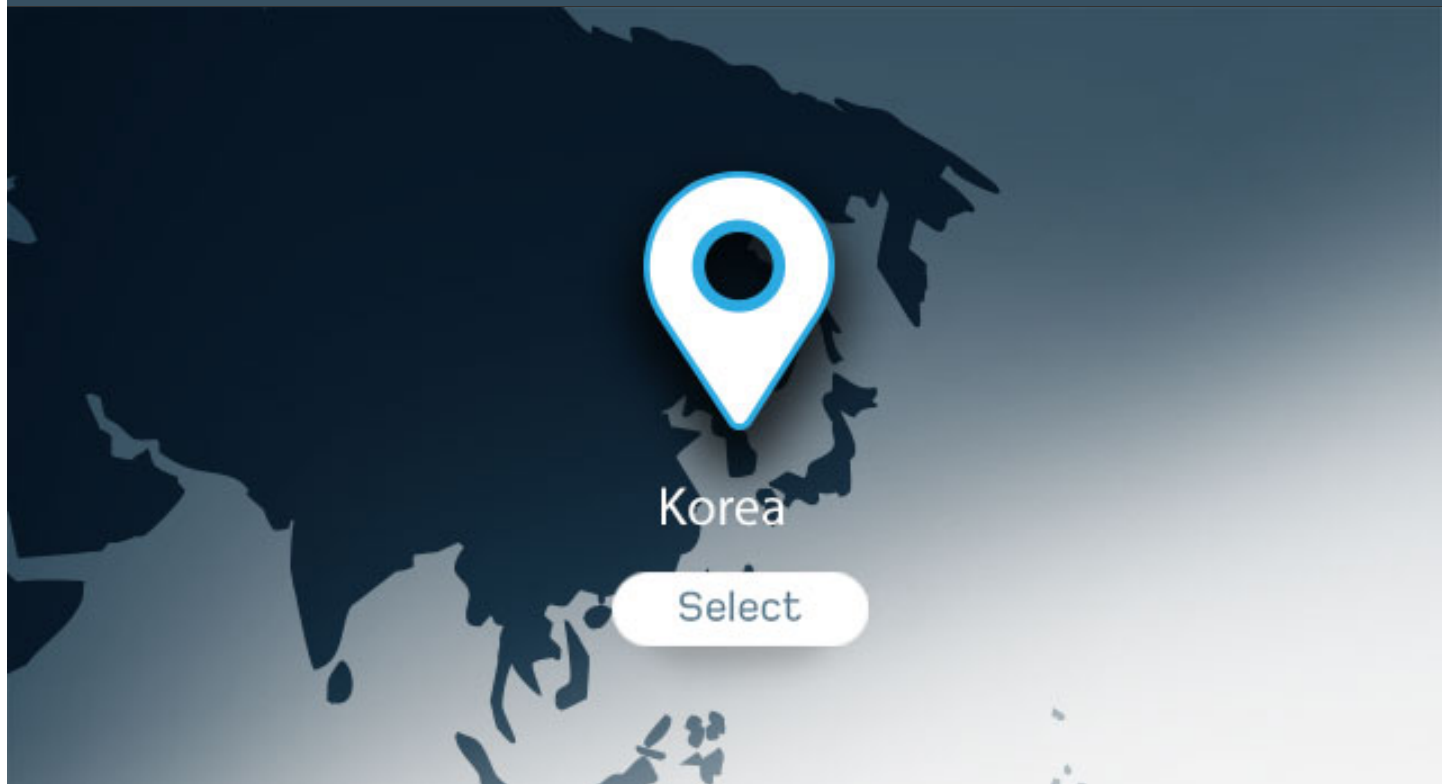


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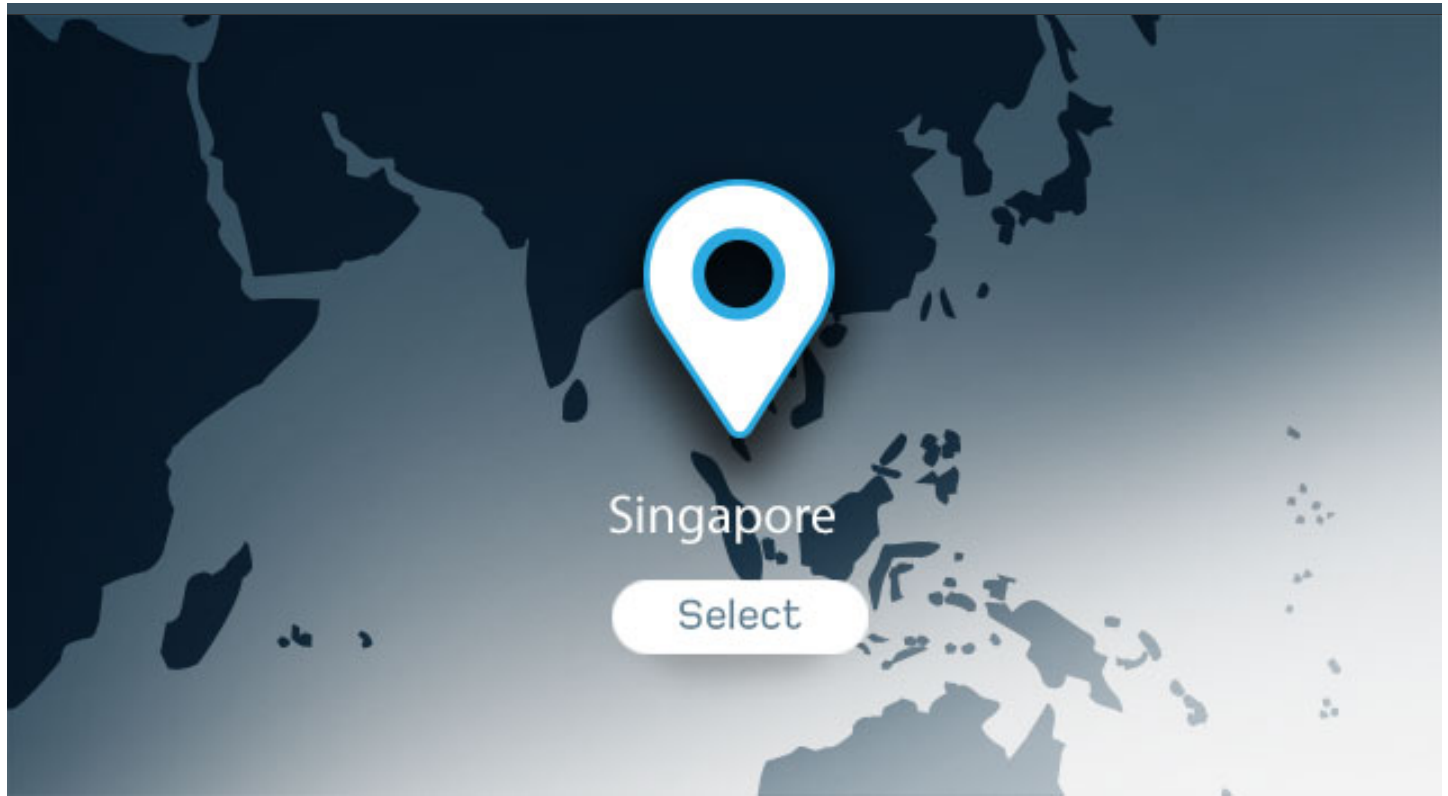


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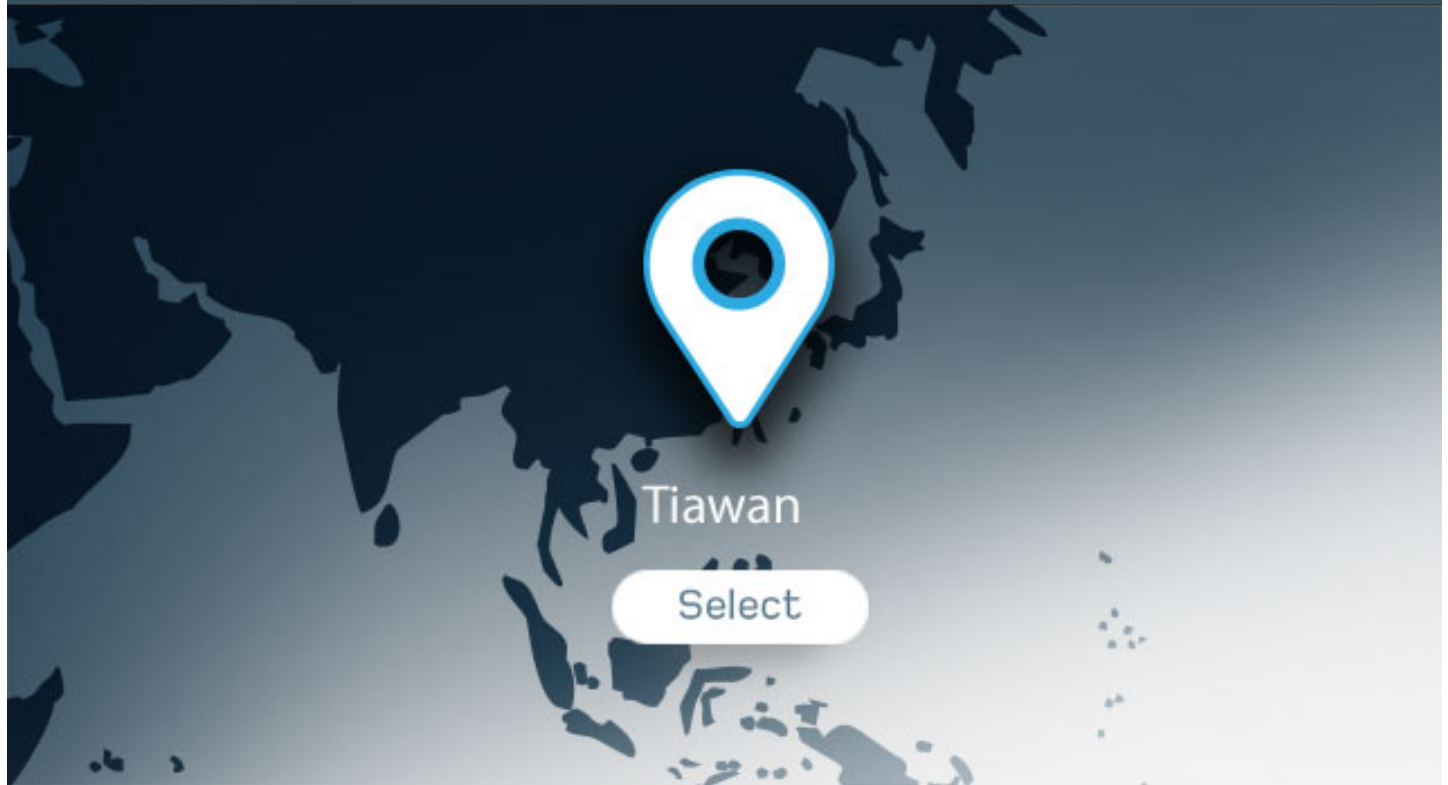


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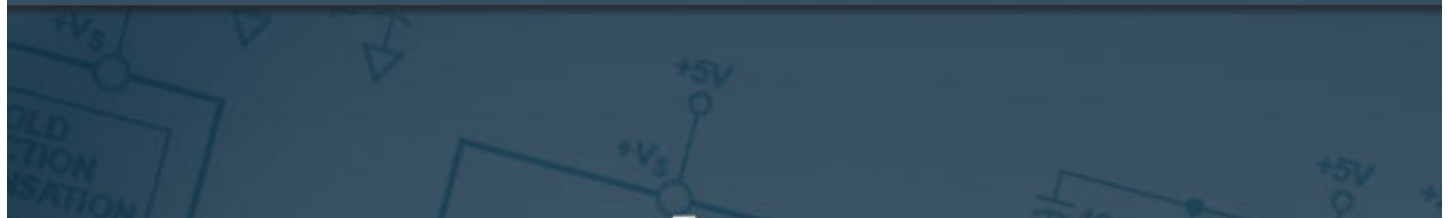


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