

**Features**

- Floating point SHARC DSP
- USB/HDMI/SPDIF/Optical inputs
- Dirac Live 3.x upgrade option

**Hardware**

- ADI ADSP21489 @400MHz
- Multichannel USB audio (8ch)
- EARC/ARC HDMI input (8ch PCM)
- 8ch DAC with audiophile specs SNR (125dB) & THD+N (0.0003%)
- OLED front panel with IR control
- 12V trigger output

**Software Control**

- Real time live control
- Win & Mac compatible
- Firmware upgradeable
- 4 preset memory
- CEC control from TV

**Applications**

- Home theater
- PC based multichannel audio
- WISA speaker tuning
- Low latency gaming
- Subwoofer integration

The **Flex HT** is miniDSP's answer to our customers looking for a pocket sized multichannel processor with HDMI ARC/eARC capabilities . Our team was able to cram a full eight channels of DSP power and a wide range of I/O into the unbelievably compact enclosure.

Eight-channel audio input is via eARC linear PCM over HDMI<sup>1</sup>, or USB Audio. Additional stereo input is supported over SPDIF and TOSLINK optical. Internally, we've provided a full suite of miniDSP flexible's routing and audio processing features: bass management, parametric EQ, crossovers, advanced biquad programming and delay/gain adjustments. In addition, the miniDSP Flex HT is software-upgradable with full-frequency Dirac Live®, the world's premiere room correction system.

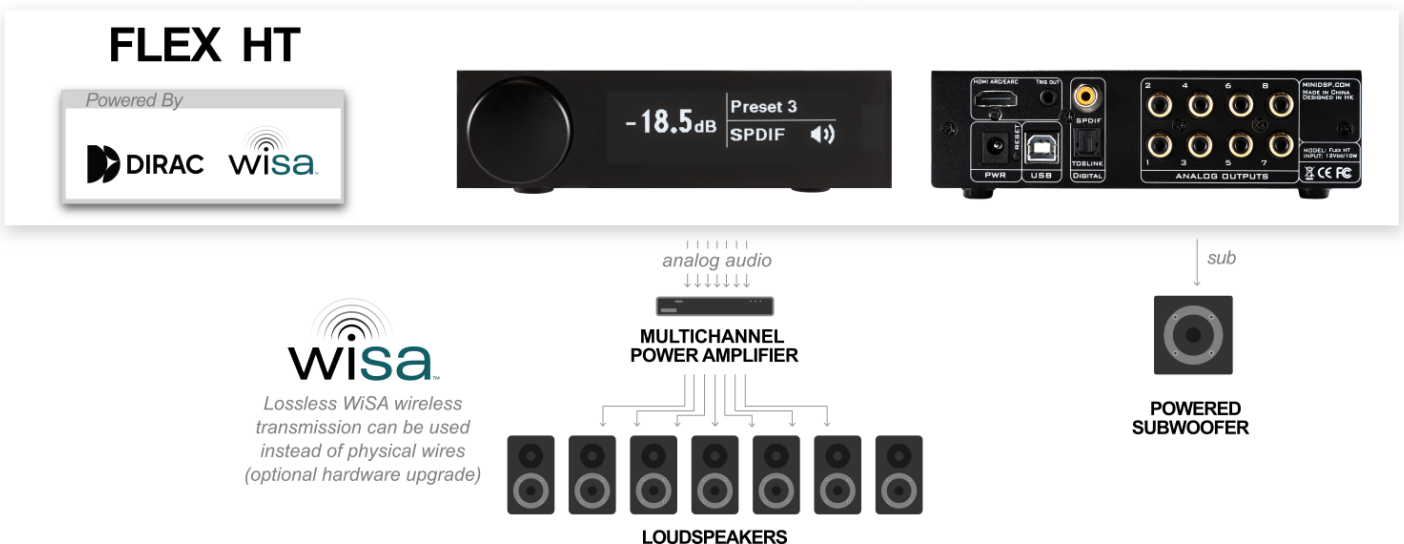
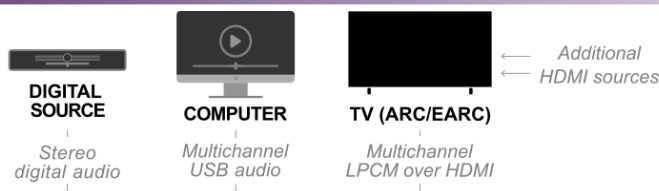
The eight-channel analog RCA outputs feature class-leading low noise and distortion figures. In addition, wireless digital output to WiSA wireless speakers and subwoofers will be provided as a hardware option in the future (ETA Q1 2024). An OLED front panel display and volume control/encoder knob provides easy control.

The **miniDSP Flex HT** is the perfect solution for a modern compact processor for home theater and multichannel sound. You just need to let your creativity do the rest!



1. The Flex HT does not support bitstream (e.g. Dolby/DTS) decoding. The audio source must be able to output linear PCM (LPCM) for multichannel support over HDMI. Please check your device user manual.

**TYPICAL APPLICATION**



**TECHNICAL SPECIFICATIONS**

	Description
Digital Signal Processing Engine	Analog Devices Floating point SHARC DSP: ADSP21489 @ 400MHZ
Processing resolution / Sample rate	32 bit/48 kHz
USB Audio support	UAC2 Audio - ASIO driver provided (Windows) - Plug&Play (Mac/Linux) Multichannel USB Audio interface (8ch) for up to 7.1 configurations / 32bit / 44.1~96kHz
Input/Output DSP structure	8ch IN (USB/HDMI) or 2ch IN (TOSLINK/SPDIF) => DSP => 8 channels OUT(Analog & WISA outputs)
Digital Stereo Audio Input Connectivity	1 x SPDIF (stereo) on RCA connector, 1 x OPTICAL (stereo) on Toslink connector Supported sample rates: 20 - 216 kHz / Stereo source will be automatically assigned to Input 1&2
HDMI connectivity	ARC/EARC compliant for up to 8ch of LPCM audio streaming Supported sample rates: 20 - 96kHz <b>WARNING:</b> No onboard Dolby/DTS decoding. Use your source (E.g. TV) to output in PCM mode.
WISA (Wireless Audio) / OPTIONAL	<b>(Future Hardware option / ETA Q1 2024)</b> 8 channels outputs via low latency, uncompressed & tightly synchronized audio via WISA protocol
Digital Audio Output Connectivity	Not Applicable
Analog Audio Output Connectivity	8 x Unbalanced RCA
Analog Audio Output Impedance	200 $\Omega$
Analog Output Max Level	2 V RMS
Frequency Response	20 Hz - 20 kHz $\pm$ 0.05 dB
SNR (Digital to Analog)	125 dB(A) with DRE enabled
THD+N (Digital to Analog)	-111 dB (0.0003 %)
Crosstalk (Digital to Analog)	-120 dB
Filtering Technology	miniDSP DSP toolbox (routing, bass management, parametric EQ, crossover, gain/delay). Optional software upgrade to multichannel Dirac Live® 3.x Full Range correction (20 Hz - 20 kHz)
DSP Presets	Up to 4 presets
Dimensions	150x180x41 mm
Accessories	IR Remote
Power Supply	Included external switching PSU 12V/1.6A (US/UK/EU/AU plugs)
Trigger out	12V trigger out controls external ON/OFF powering of amplifiers
CEC control	HDMI CEC command for Mute/Volume/Standby
Power Consumption	4.8 W (idle, Wisa OFF), 6.5W (idle, WISA ON) 2.9 W (standby)

