



HATT4

whirlwind

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The HATT4 is a sonically superior, four output stereo headphone amplifier. The outputs deliver clean, high power signals capable of driving any modern type of earbuds or headphones. Each output is driven by a high fidelity, low distortion, class AB stereo amplifier controlled with a front panel volume pot. Both 1/4" and 3.5mm headphone jacks are provided, wired in parallel. It is recommended to only use one jack at a time.

Balanced or unbalanced left and right signals are connected through 1/4" TRS connectors or unbalanced stereo signals via a 3.5mm TRS jack. Loop thru 1/4" TRS jacks can be used for "Daisy chaining" up to 10 modules. A unique design feature converts signal from the 3.5mm unbalanced stereo jack to drive the balanced loop thru jacks. This allows a single 3.5mm input to feed stereo audio to the entire chain via standard 1/4" TRS cables.

The HATT4 is powered by an included 12 Volt AC 1 Amp (PS12AC1A) "wall wart" supply. Output power is 5.8 dBV into 16 Ohms and 9.2 dBV into 30 Ohms with low distortion and full frequency response. The HATT4 is packaged in an attractive, durable ABS box for placement anywhere a multiple output, high quality headphone driver is required.

Front Panel

Each of the four channels has a volume control to adjust the level delivered to both left and right earpieces. The power LED indicates operational status.

Rear Panel

Balanced or unbalanced left and right input signals are connected to the HATT4 through 1/4" TRS connectors. A second set of looping 1/4" TRS jacks wired in parallel to the input 1/4" jacks can be used for "Daisy chaining" modules. Unbalanced stereo signals are input through the 3.5mm stereo jack. This signal is electronically balanced and wired to the normalling contacts of the left and right 1/4" TRS input jacks. When the 1/4" inputs are used, the 3.5mm input is disconnected. This feature allows the 3.5mm input to deliver balanced stereo audio to the entire chain from the looping jacks.

Each of the four headphone output channels has both 1/4" and 3.5mm rear panel jacks, wired in parallel. The left signal is on the tip and the right signal is on the ring. The sleeve is the common connection for both channels. Use only one output jack per channel at a time. The 2.1mm power input jack is for connection to the 12 Volt AC 1 Amp included (PS12AC1A) power supply.

WARRANTY

This product is guaranteed to be free from defects in materials and workmanship to the original purchaser for a period of 2 years from the date of purchase. Should service be required, return the unit postage prepaid along with the original sales receipt to:

Whirlwind
Attention - Repair
99 Ling Road
Rochester, New York 14612

The warranty on this product shall not apply to defects or damage resulting from abuse, abnormal use or from repairs or modifications performed by anyone other than Whirlwind. If it is determined a manufacturing defect has occurred, Whirlwind will repair or replace the unit at our option and pay the postage back to you.

Frequency Response	- .25 dBV @ 20 Hz; -.1 dBV @ 20 kHz
THD+noise	< .02% @ 1 kHz
Total Gain	18 dBV
Input Impedance	20 kOhms-TRS; 10 kΩ-3.5mm
Maximum Input level	+16.2 dBV-TRS; +10 dBV-3.5mm
Maximum output level	+5.8 dBV 16Ω; 9.2dBV 30Ω
Headphone Impedance	16Ω minimum to 300Ω
Noise at unity gain	-85 dBV 30Ω
Power requirements	12 VAC, 1 Amp; 2.1mm barrel connector
Power consumption	12 Watts maximum
Output drive power	1.96 VAC RMS into 16Ω = 240 mW 2.87 VAC RMS into 30Ω = 274 mW
Short circuit protection	Internal reset fuse; unplug power - reset in 45 sec.
Dimensions	6.25" w x 7.8" d x 1.8" h

MADE IN USA

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