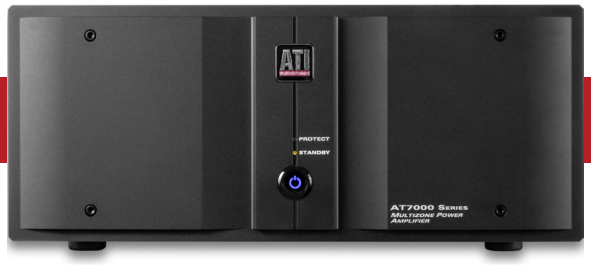
Designed, Engineered & Assembled in the USA

DISTRIBUTION AMPS - AT7012 & AT7016



The AT7000 Series is the perfect solution for multi-room sound installations requiring the utmost in flexibility, reliability and audiophile sound quality. The AT7000 series amplifiers share the cosmetic design of the highly reviewed and popular AT500nc Series amplifiers. The AT7012 (6-Zone / 12-Channel) & AT7016 (8-Zone / 16-Channel) power amplifiers incorporate the same legendary sound and design criteria as our other award winning amplifiers. Much like the AT6012 before, each zone's 2 channel power amp PCB has its own DC power supply. But this is where the similarities end. The AT7000 amps use a new hybrid active cooling system design, which includes the addition of Thermal-Trak ® power transistors to maintain each amplifier channel's optimum thermal operating point. A few more new features added to the ATI Multizone amplifiers are the Global Stereo Bus Input, Auto-Selecting Universal AC Mains Voltage and the Microprocessor Controlled, Optically Isolated Protection Circuit.

FEATURES:

Zone Level Controls - The AT7000 Series amplifiers have switchable input attenuation per zone. The attenuation can be fixed at one of five levels; 0, 2, 4, 6, or 8dB via the 4 section DIP switch for each zone.

Cooling System - The AT7000 Series amplifiers use both convection and forced air, "fan", cooling. The cooling system uses a high aspect ratio heastink, to increase surface area, and a low noise, shock mounted computer fan per 3 or 4-zone group. The fan speed is temperature and microprocessor controlled.

Universal AC Voltage & Soft-Start - The AT7000 Series amplifiers use ATI's proprietary voltage-sensing power supply which automatically selects the proper voltage and is suitable for use with AC Mains voltage of 100V to 132V and 200V to 260V. The amplifier also uses ATI's custom soft-start circuitry to minimize any turn-on power surge.

Remote Power On - The AT7000 Series amplifiers can be activated via a remote trigger of 3 to 24 VDC.

IEC Power Connector & Circuit Breaker - The AT7000 Series amplifiers are equiped with an internationally approved IEC 60320-C20 20A capable AC connector. These amplifiers also use a 20A magnetic circuit breaker for over current protection at the chassis level.

Specifications - Preliminary & Subject to Change

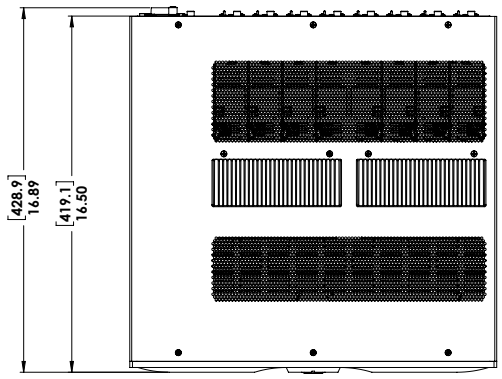
	AT7012	AT7016
Channel Count	12 Channels	16 Channels
Zone Count	6 Zones	8 Zones
Power Output (FTC 20Hz-20kHz into 8Ω)	70W	
THD+N (FTC 20Hz-20kHz into 8Ω)	<0.1%	
Power Output (1kHz into 8Ω)	70W	
THD+N (1kHz into 8Ω)	<0.02%	
Gain (XLR/RCA)	28.25dB	
Input Sensitivity	0.92V	
Frequency Response	20Hz - 20kHz ±0.5	
Signal to Noise Ratio - Referenced to Rated Power	Better Than 100dB	
Load Impedance	4Ω to 16Ω	
Crosstalk - Adjacent Zones	Better Than -55dB	
Crosstalk - Skipped Zones	Better Than -70dB	
Crosstalk - Bank/Bank	Better Than -80dB	
Output DC Offset	<±20mV	
Power - Requirements	120 VAC 60Hz (100-132VAC) 240VAC 50Hz (200-264VAC) Auto Select	
Power Consumption - Max	2400W	2400W
Power Consumption - Idle	65W	85W
Power Consumption - Full Power 8Ω Loads	775W per 6 Channel Bank	1000W per 8 Channel Bank
Chassis Dimensions (H,W,D) Without Feet	7in(4RU) x 17in x 17in 177mm x 432mm x 432mm	
Chassis Dimensions (H,W,D) With Feet	7.45in x 17in x 17in 190mm x 432mm x 432mm	
Shipping Dimensions (H,W,D)	15in x 24in x 25in 381mm x 610mm x 635mm	
Weight - Amplifier	66lbs (30kg)	73lbs (33.2kg)
Weight - Shipping	80lbs (36.4kg)	87lbs (39.6kg)

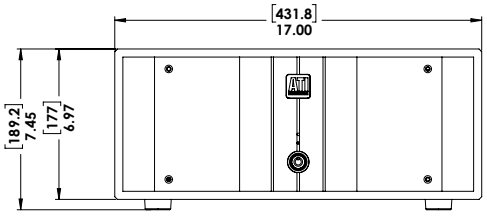
Power Supply - The power supply section of the AT7000 amplifiers consists of a highly efficient silicon-steel toroidal transformer core. The primary windings are designed to allow for 120VAC and 240VAC operation. The standby power supply sense the AC voltage and configures the power transformers for proper operation. The transformers also have separate bi-filar wound secondaries for each amplifier PCB providing excellent voltage regulation and current reserve. The filtering section of the power supply for each channel consists of 24,000 micro farads of capacitance!

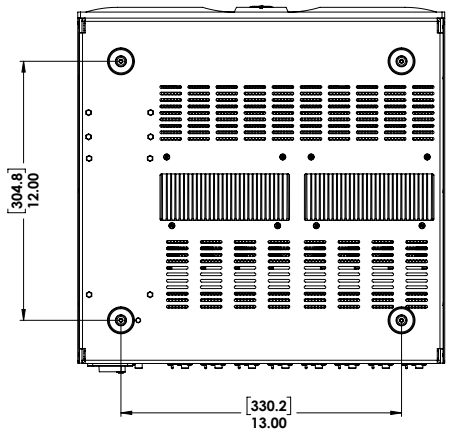
Circuitry - The circuitry of the AT7000 amplifiers is totally complementary from input to output using dual-differental input stages to pre-drivers to the full complementary, push-pull output stage.

Optically Isolated Protection Circuit - This circuit will automatically sense over current, high frequency oscillations, or excessive DC offset conditions. Should the circuit be activated, the output will be terminated and the operating state of the amplifier will be sampled every 10 seconds. This unique circuit is optically-coupled and microprocessor controlled, thereby eliminating any contamination of the audio signal.

Speaker Output Connections - The output connections are "Phoenix" style plugable terminal blocks capable of handling upto 8 AWG wire and 32 amps of current. All connectors are provided.







AT7016 RACK MOUNT VERSION