



AT7000 Series 12 & 16 Channel Multi-Zone Power Amplifiers



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 industrial 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 ThermalTrak[®] 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.

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 heat sink, 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 equipped 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.

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-differential 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.