



#### Introduction

The Atlona **Gain™ 120 (AT-GAIN-120)** is a compact power amplifier designed for low or high impedance applications. A mode selector switch allows the Gain 120 to deliver two channels of 60 watts each into 4 or 8 ohms, or a single channel of 120 watts at 70 or 100 volts. This Class-D amplifier is energy efficient and ENERGY STAR qualified, and is also convection-cooled to allow installation in conference rooms and quiet installation environments without the need for fans. In addition to the amplified speaker output, a line level audio output allows the incoming audio to be fed into an additional amplifier or audio system. The Gain 120 is controllable via TCP/IP or external trigger, and can be integrated with Atlona AV switchers and OmniStream™ AV systems for a wide variety of sound reinforcement applications.

Available for the Gain 120 is the AT-GAIN-NET networked audio card, featuring an AES67 and Dante dual-channel audio bridge. The AT-GAIN-NET adds the capability to accept two channels over a network from a Dante or AES67-equipped DSP, as well as Atlona OmniStream AV encoders.

### **Applications**

- Meeting rooms, conference rooms, training rooms, and classrooms The Gain 120 can receive audio from an Atlona AV switcher or DSP, and then feed the audio to program speakers on the front wall, or a distribution of ceiling speakers.
- Facility audio systems

The Gain 120 can be integrated with a centralized audio distribution system for paging and background music, as well as audio content targeted to specific zone.



### **Key Features**

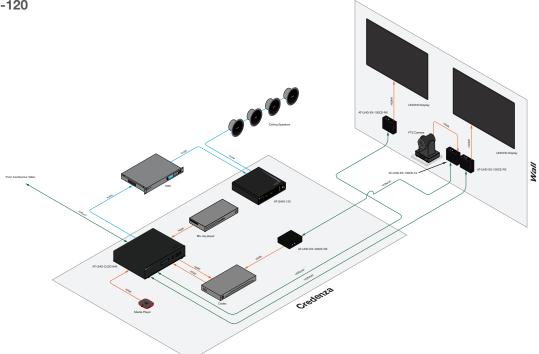
- Selectable low or high impedance operation.
- 2 x 60 watts @ 4 or 8 ohms.
- 1 x 120 watts @ 70 or 100 volts.
- Class-D efficient amplifier design.
- ENERGY STAR® qualified.
- Convection cooled no need for fans.
- Optional AES67 / Dante<sup>™</sup> networked audio interface (AT-GAIN-NET) receives two-channel audio from OmniStream AV encoders or compatible audio devices.
- Available AT-RACK-1RU rack shelf required accessory for rack installation<sup>(1)</sup>.
- Automatic standby, configurable from 5 to 25 minutes of inactivity, to minimize power consumption.
- Rear panel input level controls.
- Integrated protection circuitry automatically activates in the event of clipping, short circuit, thermal overload, and more.
- Low inrush current to prevent audible "thumps" when multiple amps are powered on simultaneously.
- Balanced line-level output for pass-through to an additional amplifier or audio system.
- Integrated five-band equalizer.
- TCP/IP control of volume level, muting, and EQ.
- Ideal for IP-based control from Atlona Velocity<sup>™</sup> Control System.
- Trigger port ideal for occupancy sensor or control system to remotely power down amplifier or wake from standby.
- Front panel signal status LEDs for power, signal presence, real-time volume level, device identification, and internal protection activation.
- Rack-mountable 1U, half rack width enclosure.
- Includes installation guide, power cable (US), and captive screw connectors.



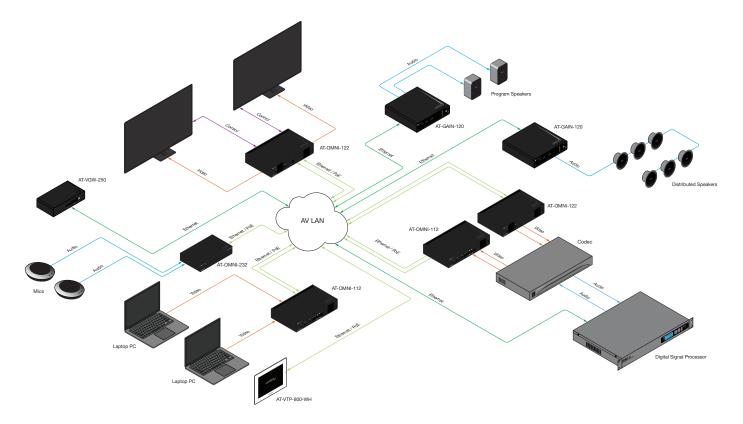
# **Stereo / Mono** Audio Power Amplifier - 120 W

## **Connection Diagrams**

• AT-GAIN-120



• AT-GAIN-120 with AT-GAIN-NET networked audio card





# **Specifications**

Connectors, Controls, and Indicators		
INPUT	1 - RJ45 (AT-GAIN-NET network audio card, only), 100 Mbps	
LAN	1 - RJ45	
ANALOG IN	1 - 5-pin captive screw, balanced: 20 k $\Omega,$ unbalanced: 10 k $\Omega$	
LINE OUT	1 - 5-pin, 3.5mm	
TRIGGER	1 - 2-pin captive screw	
4 / 8 Ω OUT	1 - 4-pin, 5.08 mm lock-down screw connector	
70V / 100V OUT	1 - 5-pin, 3.5mm	
FW	1 - mini-USB, type-B	
INPUT GAIN	2 - Rotary pots, L/R channel	
MODE	1 - Slider switch, 4-pole, 4 Ω / 8 Ω / 70 V / 100 V	
RESET	1 - Push button, tact-type	
IP RESET	1 - Push button, tact-type	
Power	1 - IEC power receptacle	
PWR	1 - LED indicator, green	
SIGNAL	1 - LED indicator, green	
DEVICE ID	1 - LED indicator, green	
ANALOG IN	1 - LED indicator, green	
NET AUDIO	1 - LED indicator, green	
VOL LEVEL	1 - Multi-LED indicator	
Input Signal		
Analog Input	Balanced: 20 k $\Omega$ , unblanced: 10 k $\Omega$	
CMRR	51 dB / 58 dB	
Detection Threshold	0 dBV = 2.218 dBu	
Output Signal		
Distributed speakers (mono)	70 V / 100 V	
Program speakers (stereo)	4 Ω / 8 Ω, line-level	
Power	70 V = 120 Vrms (bridge mode) 100 V = 120 Vrms (bridge mode) 4 / 8 $\Omega$ = 60 W per channel	
Audio Processing		
D/A Conversion	24-bit, selectable sampling rate	
Audio Formats	24-bit uncompressed, selectable at 44.1, 48, 88.2, and 96 kHz sampling rate	
Latency	2 ms	
Signal Processing	Volume, Auto on/off signal sensing, 80 Hz HPF	
Network Audio Transport	Dante, AES67	
Equalization	5-band, adjustable: 40 Hz, 150 Hz, 500 Hz, 2 kHz, and 10 kHz bands Range: -10 dB to +10 dB	



Audio Performance		
20 Hz - 20 kHz, ±2 dB @ 4 Ω load		
< 0.1% @ 1kHZ, 3 db below clipping		
> 90 dBA WTD		
< 90 @ 8 Ω		
Class D		
Fahrenheit	Celsius	
32 °F to 122 °F	0 °C to 50 °C	
-40 °F to 158 °F	-40 °C to 70 °C	
90% RH, non-condensing		
Powers down after 5 - 25 minutes (adjustable) of no signal; complies with ENERGY STAR power consumption limits of < 0.5 W in standby mode		
120 W (max.)		
normal standby < 0.5 W network standby < 2 W		
100 - 240 V AC, 50/60 Hz, 120 W		
Inches	Millimeters	
1.69 x 8.66 x 12.99	43 x 220 x 330	
Pounds	Kilograms	
19.84	9	
CE, RoHS, WEEE, FCC, ENERGY STAR®		
	<ul> <li>&lt; 0.1% @ 1kHZ, 3 db below clipping</li> <li>&gt; 90 dBA WTD</li> <li>&lt; 90 @ 8 Ω</li> <li>Class D</li> <li>Fahrenheit</li> <li>32 °F to 122 °F</li> <li>-40 °F to 158 °F</li> <li>90% RH, non-condensing</li> <li>Powers down after 5 - 25 minutes (adjust STAR power consumption limits of &lt; 0.5 °C</li> <li>120 W (max.)</li> <li>normal standby &lt; 0.5 W</li> <li>network standby &lt; 2 W</li> <li>100 - 240 V AC, 50/60 Hz, 120 W</li> <li>Inches</li> <li>1.69 x 8.66 x 12.99</li> <li>Pounds</li> <li>19.84</li> </ul>	

(1) The AT-RACK-1RU rack shelf is a required accessory to ensure a proper, secure rack installation. Additionally, 2U of space will be required to install the Gain 120 in a rack.



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