Stereo/Mono Audio Power Amplifier - 120 Watts
AT-GAIN-120

The Atlona Gain™ 120 (AT-GAIN-120) is a compact power amplifier designed for low or high impedance applications. A mode selector switch allows it 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, 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 HDBaseT™ receivers for a wide variety of sound reinforcement applications.
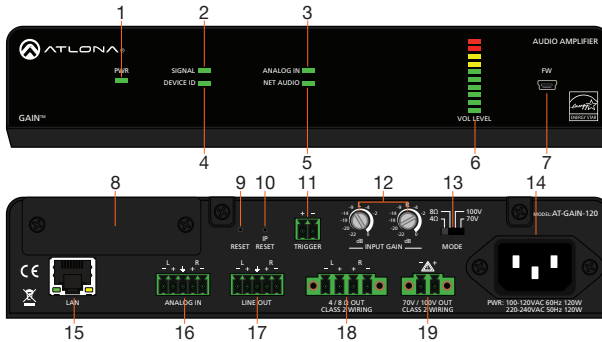
Package Contents

1 x AT-GAIN-120
2 x Captive screw connector, 2-pin
1 x Captive screw connector, 4-pin
2 x Captive screw connector, 5-pin
1 x IEC power cord
1 x Installation Guide

⚠️ **IMPORTANT**: Visit http://www.atlona.com/product/AT-GAIN-120 for the latest firmware updates and User Manual.
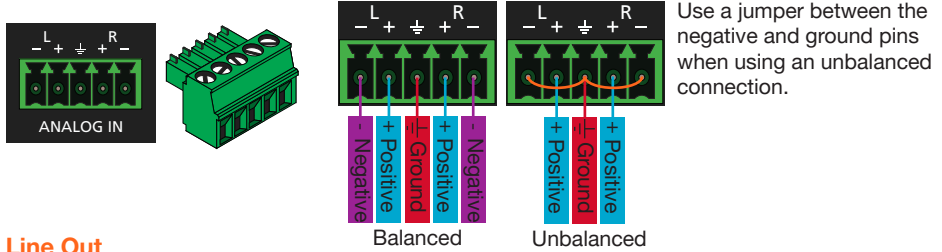
Front Panel Descriptions

1   PWR
This LED will indicate power status.

2   SIGNAL
Will illuminate when an audio source or signal is detected.

3   ANALOG IN
The LED will illuminate green when the **ANALOG IN** port is the active input port.

4   DEVICE ID
LED will blink when the command Blink on is sent, to help identify the device when multiple units are present.

5   NET AUDIO (Optional function)
LED will illuminate when the **INPUT** port, available on the optional AT-GAIN-NET card, is the active input port.

6   VOL LEVEL
Displays the output audio level.

7   FW
Connect a USB-to-mini USB cable to this port from a computer for firmware updates.

8   Removable Faceplate
Insert the optional AT-GAIN-NET into this slot.

9   RESET
Press and hold button for 10 seconds to factory reset the unit.

10   IP RESET
Press and hold button for 10 seconds to switch between DHCP and static IP mode. Also press and hold for 3 seconds to bring the unit out of hibernation mode.

11   TRIGGER
Use this port to toggle the unit between on and standby or awaken the unit from hibernation mode.

12   INPUT GAIN
Use a screwdriver to adjust the input gain level for left and right channel.

13   MODE
Slide the switch to select between 4Ω, 8Ω, 70V, or 100V speaker power modes.

14   PWR
Connect from a power source to the AT-GAIN-120 using the included IEC power cord.

15   LAN
Connect an Ethernet cable to this port from the Local Area Network.

16   ANALOG IN
Connect an audio source to this port using the included 5-pin captive screw connector.

17   LINE OUT
Use the included 5-pin captive screw connector to connect to another AT-GAIN-120, audio DSP, or audio mixer.

18   4 / 8 Ω OUT
Connect a pair of 4 or 8 ohm speakers to this port using the included 4 pin captive screw connector.

19   70V / 100V OUT
Connect 70V or 100V speakers to this port with the included 2-pin captive screw connector.

Analog In

Connect to an audio DSP or other audio distribution or source devices. Either balanced or unbalanced connections may be used.
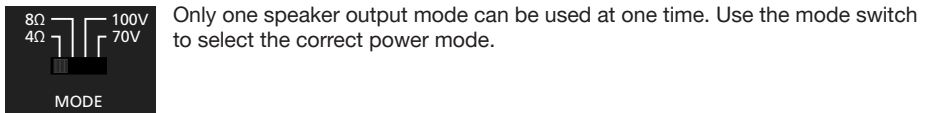
Use a jumper between the negative and ground pins when using an unbalanced connection.

Balanced   Unbalanced

Line Out

Connect to another GAIN-120 amplifier audio input, audio mixer, or DSP.

Use a jumper between the negative and ground pins when using an unbalanced connection.
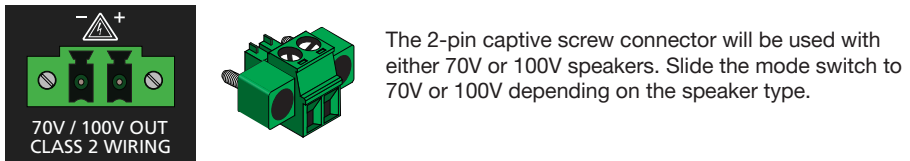
Balanced   Unbalanced
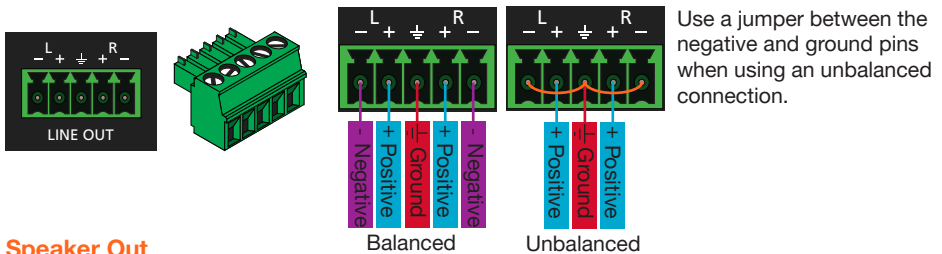
Speaker Out

Only one speaker output mode can be used at one time. Use the mode switch to select the correct power mode.
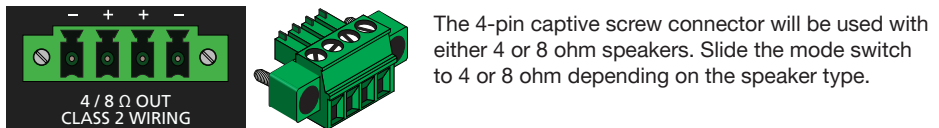
The 4-pin captive screw connector will be used with either 4 or 8 ohm speakers. Slide the mode switch to 4 or 8 ohm depending on the speaker type.

The 2-pin captive screw connector will be used with either 70V or 100V speakers. Slide the mode switch to 70V or 100V depending on the speaker type.

Trigger
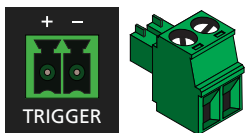
The GAIN-120 can be toggled between on and standby using a control device and system, such as the Velocity Command Converter and Velocity control software. Connect the GAIN-120 using the included 2-pin captive screw connector.

Installation

1. Connect an audio source into the ANALOG IN port using the included 5-pin captive screw connector.

2. Connect speakers to either the 4 / 8 Ohm or 70V / 100V port.

3. Set the mode switch to the correct output mode.

   NOTE: Gain-120 only supports one powered speaker type (low or high impedance) output port at a time.

4. *Optional* Connect the line out to another GAIN-120's ANALOG IN port for additional speaker zones or an audio DSP.

5. *Optional* Connect the included 2-pin captive screw connector to the Trigger port to toggle the GAIN-120 between on and standby mode, or to awake from hibernation mode, see AT-GAIN-120 user manual for information on hibernation mode.

6. *Optional* Install the AT-GAIN-NET audio network card (not included) to accept Dante/AES67 audio.

7. Connect the LAN port to a network switch for set up and control of the unit.

8. Connect the IEC cable from the unit to a 120V-240V power source.

Mounting Instructions

The AT-GAIN-120 can be mounted in different ways, based on the number of units that are being installed. When installed into a standard 19" rack, the AT-RACK-1RU will need to be purchased from atlona.com.

When installing the AT-GAIN-120 into the AT-RACK-1RU, it can be installed as a single unit on either side of the rack or paired with any of Atlona's other 1/2 rack units. **e.g.** UHD-SW series products or another AT-GAIN-120

IMPORTANT: 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. Before mounting the AT-GAIN-120 to the AT-RACK-1RU, remove the rubber feet from the bottom of the unit.

AT-RACK-1RU
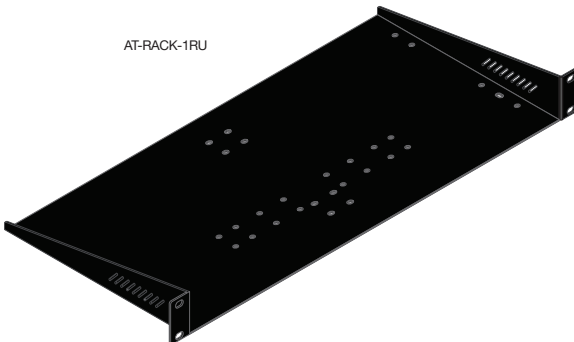
1. Turn the rack and unit upside down.

2. Line up the AT-GAIN-120 mounting holes to the holes marked with blue on the rack image on the next page.

3. Use the included 7 mm screws to affix the unit to the rack.

NOTE: Do not over-tighten the rack screws to avoid damaging the unit.
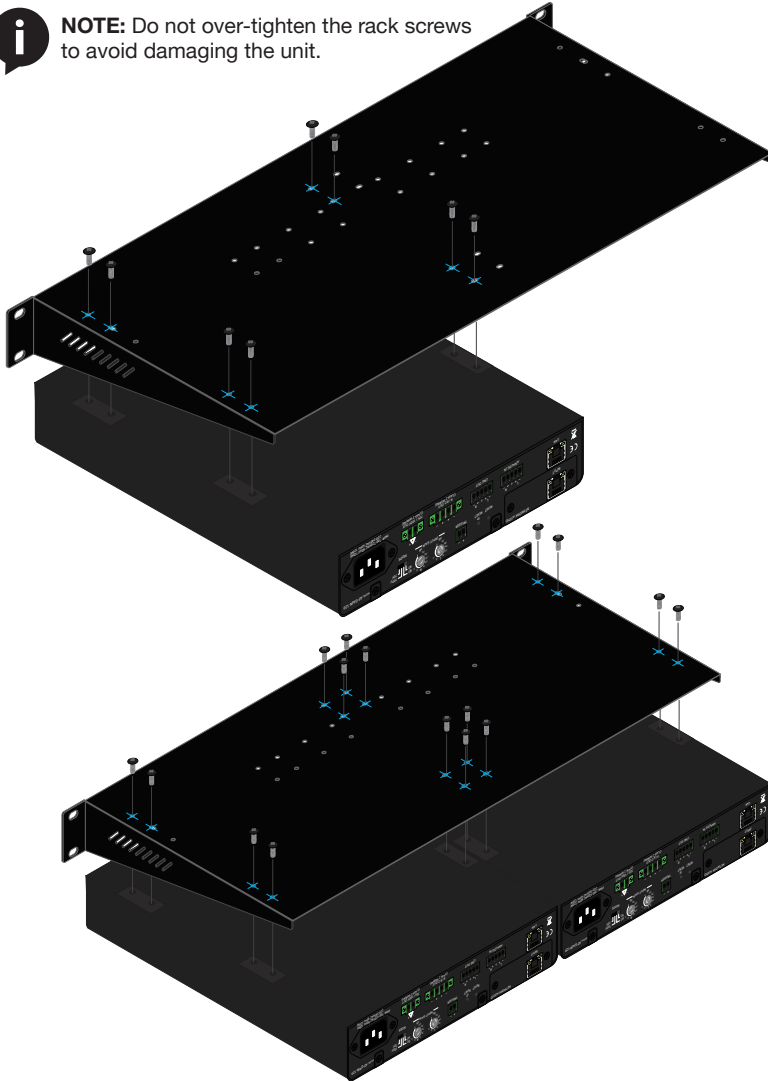
4. Turn the rack and units right-side up and install into a rack using the screws included with the rack.

IP Modes

DHCP

By default, the AT-GAIN-120 is set to DHCP mode. In this mode, when the AT-GAIN-120 is connected to the Local Area Network (LAN), it will automatically be assigned an IP address by the DHCP server (if available).

Static

If no DHCP server is available, or a static IP is required, the GAIN-120 can be set to static IP mode using the IP reset button.

- Press and hold the **IP RESET** button for 10 seconds to switch to static IP mode. In this mode, the AT-GAIN-120 will be set to the following:
  IP address: 192.168.1.254
  Subnet mask   255.255.0.0
  Gateway: 192.168.1.1

- To switch back to DHCP, press and hold the IP reset button for 10 seconds.

Accessing the webGUI

The AT-GAIN-120 includes a built-in webGUI, which allows easy remote management and control of all features. Follow the instructions below to access the webGUI.

1. Make sure that an Ethernet cable is connected between the **LAN** port on the AT-GAIN-120 and the network.
2. Launch a web browser and enter the IP address of the unit.
3. The AT-GAIN-120 **Login** page will be displayed.
4. Enter the following information on the **Login** page.

    Login: admin
    Password: Atlona

5. Click the **Login** button.
6. Refer to User Manual for detailed operation of the webGUI.

AMS 2.0

For easy configuration of Atlona devices , AMS 2.0 is available from https://atlona.com/ams for free. Two options can be used for installation: The free Linux based software download or the easy to install server hardware (AT-AMS-HW).

Once AMS has been set up:

1. Open a browser on the same network as AMS 2.0 and go to the IP address of AMS 2.0. View the AMS 2.0 installation instructions on how to find the IP address of the software.
2. Enter the login information on the AMS 2.0 web page, then click the **Login** button.
3. View the AT-GAIN-120 manual for routing and configuration information.

Connection Diagram
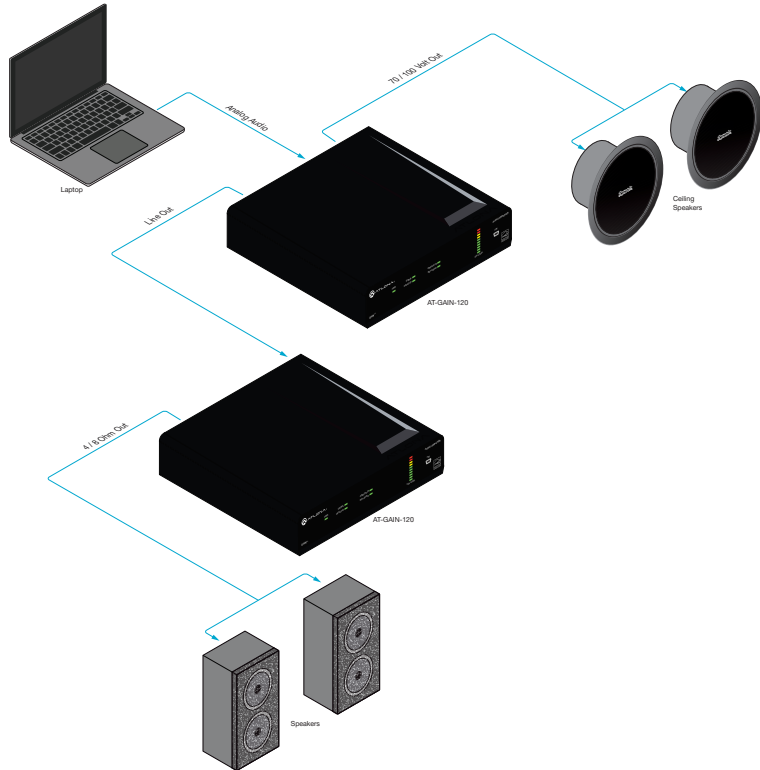
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