Stereo / Mono
Audio Power Amplifier
60 Watts
## Version Information

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<th>Release Date</th>
<th>Notes</th>
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<td>1</td>
<td>Apr 2018</td>
<td>Initial release</td>
</tr>
<tr>
<td>2</td>
<td>Nov 2018</td>
<td>Firmware version 1.0.03; added auto power-on feature</td>
</tr>
<tr>
<td>3</td>
<td>Jul 2019</td>
<td>Updated for 1.0.14 firmware: ation logo update, other internal fixes. Refer to Release Notes for more information</td>
</tr>
</tbody>
</table>
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Registration only takes a few minutes and protects this product against theft or loss. In addition, you will receive notifications of product updates and firmware. Atlona product registration is voluntary and failure to register will not affect the product warranty.

To register your product, go to http://www.atlona.com/registration

Sales, Marketing, and Customer Support

Main Office
Atlona Incorporated
70 Daggett Drive
San Jose, CA 95134
United States

Office: +1.877.536.3976 (US Toll-free)
Office: +1.408.962.0515 (US/International)

Sales and Customer Service Hours
Monday - Friday: 6:00 a.m. - 4:30 p.m. (PST)

http://www.atlona.com/

International Headquarters
Atlona International AG
Ringstrasse 15a
8600 Dübendorf
Switzerland

Office: +41 43 508 4321

Sales and Customer Service Hours
Monday - Friday: 09:00 - 17:00 (UTC +1)

Operating Notes


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**Important Safety Information**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Das Symbol des Blitzzeichens innerhalb eines gleichseitigen Dreiecks soll den Benutzer davor warnen, dass innerhalb des Gehäuses gefährlich hohe Spannung an berührbaren Teilen anliegt. Die Spannung ist hoch genug um bei Berührung zu einem gefährlichen elektrischen Schlag zu führen!

三角形內带有箭頭符號的閃電，旨意在提醒用戶產品外殼內存在未絕緣的“危險電壓”可能會造成人體觸電危險

Вспышка молнии с символом стрелки в треугольнике предназначена для предупреждения пользователя о наличии неизолированного «опасного напряжения» в корпусе продукта, которое может иметь достаточную величину, чтобы представлять опасность поражения электрическим током для людей

Le flash lumineux dans le symbole de la flèche du triangle équilatéral est destiné à alerter l’utilisateur de la présence d’une «tension dangereuse» non isolée dans l’enceinte du produit qui peut être suffisamment importante pour constituer un risque d’électrocution pour les personnes

Il simbolo del lampo con la punta di una freccia, all’interno di un triangolo equilatero, avvisa l’utente della presenza di “tensioni pericolose” non isolate all’interno del contenitore del prodotto che possono essere sufficientemente elevate da costituire un rischio di folgorazione per le persone.

El símbolo del rayo con punta de flecha dentro de un triángulo equilátero alerta al usuario de la presencia de “voltaje peligroso” no aislado en el interior del producto que puede ser de una magnitud suficiente como para constituir un riesgo de descarga eléctrica para las personas.
FCC Statement

FCC Compliance and Advisory Statement: This hardware device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.
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Introduction

The Atlona Gain™ 60 (AT-GAIN-60) is a compact power amplifier designed for low or high-impedance applications. A mode selector switch allows the Gain 60 to deliver two channels of 30 watts each into 4 or 8 ohms, or a single channel of 60 watts at 24, 70, or 100 volts. This Class-D amplifier is energy efficient and ENERGY STAR qualified, and is also convection-cooled without the need for fans. Additionally, the Gain 60 is UL 2043 plenum rated, allowing convenient yet discreet installation in a plenum airspace above a drop ceiling. Balanced and unbalanced audio inputs are provided for system design versatility. The Gain 60 is controllable via TCP/IP or RS-232, and can be integrated with Atlona AV switchers and OmniStream™ AV systems for a wide variety of sound reinforcement applications.

Features

- Selectable low or high-impedance operation.
  - 2 x 30 watts @ 4 or 8 ohms.
  - 1 x 60 watts @ 24, 70 or 100 volts.
- Selectable balanced and unbalanced audio inputs.
- Class-D efficient amplifier design.
- ENERGY STAR® qualified.
- Convection cooled – no need for fans.
- UL 2043 plenum-rated – allows installation above commercial drop ceilings.
- Automatic standby, configurable from 5 to 25 minutes of inactivity, to minimize power consumption.
- Rear panel input level control.
- Integrated protection circuitry automatically activates in the event of clipping, short circuit, thermal overload, and more.
- Bass and treble tone controls.
- TCP/IP and RS-232 control of volume level, muting, and tone controls.
- Ideal for IP-based control from Atlona Velocity™ Control System.
- Front-panel button controls for input selection, mute, and volume control.
- Front panel signal status LEDs for power, input selection, mute, and real-time volume level.
- Compact, rack-mountable enclosure.
- Optional AT-RACK-1RU rack shelf – recommended for rack installation.
- Includes installation guide, captive screw connectors, and external universal power supply.

Package Contents

1 x AT-GAIN-60
2 x Captive screw connector, 2-pin
1 x Captive screw connector, 4-pin
2 x Captive screw connector, 5-pin
1 x 28 V / 3.4 A DC power supply
1 x Installation Guide
Panel Description

1. PWR
   This LED indicator glows solid green when the unit is powered. When set to standby mode, this LED indicator glows solid amber.

2. 1 / 2
   These LED indicators display the currently selected input. The active input will be indicated by a solid green LED.

3. INPUT
   Press this button to select the desired audio input.

4. Mute LED Indicator
   This LED indicator will glow solid red when the audio output is muted.

5. MUTE
   Press this button to mute the audio output. Press the button again to unmute the audio output.

6. VOL
   Press the up-arrow button to increase the output volume. Press the down-arrow button to decrease the output volume. The LEDs on the Audio Output Indicator will change each time one of these buttons is pressed.

7. Audio Output Indicator
   Displays the output audio level. If the volume level peaks at the red indicator (0 dB), then clipping will occur.

8. LAN
   Connect an Ethernet cable from this port to the Local Area Network (LAN).

9. RS-232
   Connect the included 3-pin captive screw connector from this port to an RS-232 controller or automation system. Refer to RS-232 (page 12) for wiring information.

10. AUDIO IN 2 (unbalanced)
    Connect RCA cables, from an analog line output, to these ports. Both analog stereo or two mono connections are supported. Input impedance is 10 kΩ.

11. AUDIO IN 1
    Connect the included captive screw connector, from a balanced / unbalanced analog line output, to this port. Input impedance is 20 kΩ. Refer to Audio Connectors (page 11) for wiring information.

12. INPUT GAIN
    Turn this pot to adjust the audio input gain in 4 dB increments.

13. 24 / 70 / 100V
    Connect the included 2-pin captive screw connector from this port to a distributed speaker system. Before connecting the speakers, set the speaker voltage using the OUTPUT MODE switch.

14. 4 / 8 Ω OUT
    Connect the included 4-pin captive screw connector from this port to a pair of program / stereo speakers. Before connecting the speakers, set the speaker impedance using the OUTPUT MODE switch.

15. OUTPUT MODE
    Slide this switch to set the correct speaker impedance or voltage setting before connecting the speakers.

16. RESET
    Press and hold this button for 10 seconds to reset the unit to factory-default settings. Refer to Factory Reset (page 23) for more information.

17. DC 28V
    Connect the included 28V DC power supply to this power receptacle.
Installation

Audio Connectors

The AT-GAIN-60 provides two audio ports: one input and one output. The AUDIO IN 1 port can be used to connect an audio digital signal processor (DSP) or other audio source device. Balanced or unbalanced wiring is supported.

The AUDIO IN 2 port is used to connect an analog audio source using RCA-type cables.

1. Use wire strippers to remove a portion of the cable jacket.
2. Remove at least 3/16" (5 mm) from the insulation of each wire.
3. Connect the wires as shown, using either balanced or unbalanced wiring.

**AUDIO IN**

![Audio Connectors Diagram]

**Balanced audio using XLR connectors**

**Unbalanced audio using RCA connectors**

**4 / 8 Ω OUT**

Connect program/stereo speakers to the included 4-pin captive screw connector, then connect the terminal block to the 4 / 8 Ω OUT port. When connecting program / stereo speakers, set the MODE switch to either 4 Ω or 8 Ω, depending upon the speaker impedance.

**24 / 70 / 100V**

Connect distributed speaker system to the included 2-pin captive screw connector, then connect the terminal block to the 24 / 70 / 100V port. When connecting program / stereo speakers, set the MODE switch to 24, 70, or 100V, depending upon the speaker voltage.
RS-232

The AT-GAIN-60 provides RS-232 control between an automation system and an RS-232 device. This step is optional.

1. Use wire strippers to remove a portion of the cable jacket.
2. Remove at least 3/16" (5 mm) from the insulation of the RX, TX, and GND wires.
3. Insert the TX, RX, and GND wires into correct terminal on the included captive screw block.
Connection Instructions

1. Connect an analog audio source to the AUDIO IN ports. Once connected, press the INPUT button on the front panel, to switch between the RCA and the 5-pin captive screw port.

   • **RCA cables (unbalanced)**
     Connect shielded RCA-type cables from the audio source to the AUDIO IN 2 left/right RCA jacks.

   • **Balanced/Unbalanced**
     Connect the included 5-pin captive screw to the AUDIO IN 1 port. Use the desired wiring configuration, on the previous page.

2. Determine the use-case scenario of the AT-GAIN-60. The AT-GAIN-60 can be configured as either one of the following. Only one type of speaker connection is permitted at a time.

   • **Distributed speaker system (high impedance)**
     Set the OUTPUT MODE switch to the required voltage setting: 24, 70, or 100V. This mode is used for commercial applications and longer speaker cable runs.

   • **Program speakers / stereo (low impedance)**
     Set the OUTPUT MODE switch to the impedance setting of the speakers being connected: 4Ω or 8Ω. This mode is used for consumer applications and shorter speaker cable runs.

Refer to Connection Diagrams (page 14) for example applications.

3. Connect the speakers to the proper port on the AT-GAIN-60, based on the selection made in the previous step.

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

5. Connect the included power supply to the DC28V power receptacle.

6. Connect the IEC power cable to an available electrical outlet.

**NOTE:** The AT-GAIN-60 only supports one type of speaker connection at a time: high-impedance or low-impedance.
**IMPORTANT:** When connecting speakers, either use a distributed speaker system or program/stereo speakers. The AT-GAIN-60 does not support simultaneous distributed and program speaker connections.
IP Configuration

The AT-GAIN-60 is shipped with DHCP enabled. Once connected to a network, the DHCP server (if available), will automatically assign an IP address to the unit. Execute the `arp -a` command at the Windows command line or use an IP scanner to locate the AT-GAIN-60 on the network.

If the AT-GAIN-60 is unable to detect a DHCP server, within 15 seconds, then the unit will be assigned the following IP configuration:

- IP address: 192.168.1.254
- Subnet mask: 255.255.0.0
- Gateway: 192.168.1.1

If a static IP address is desired, the unit can be switched to static IP mode. Use one of the following procedures to switch between DHCP and static IP mode. 192.168.1.254 is the default static IP address.

Using the Rear Panel

1. Make sure the AT-GAIN-60 is powered.
2. Press and hold the **INPUT** button for approximately 10 seconds.
3. Release the **IP RESET** button once the **PWR** LED indicator on the front panel begins to flash. The number of flashes will indicate the currently selected IP mode.

<table>
<thead>
<tr>
<th>POWER LED flashes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two</td>
<td>Static IP mode</td>
</tr>
<tr>
<td>Four</td>
<td>DHCP mode</td>
</tr>
</tbody>
</table>

4. Once the unit has changed IP modes, the unit will automatically reboot.
5. The unit is now set to the new IP mode and ready for use.
Using Commands

Use the IPStatic and IPDHCP commands to switch between DHCP and static IP mode using Telnet or RS-232. Refer to the Application Programmers Interface documentation for more information. All commands and their arguments are case-sensitive.

• Setting static IP mode

1. Connect to the AT-GAIN-60 using Telnet.
2. At the command line, execute the IPDHCP command using the off argument, as shown.
   IPDHCP off
3. Execute the IPStatic command. This command requires three arguments: the desired IP address of the AT-GAIN-60, the subnet mask, and the gateway address. All arguments must be entered in dot-decimal notation. The following is an example:
   IPStatic 192.168.1.112 255.255.255.0 192.168.1.1
4. The AT-GAIN-60 will automatically reboot. The unit is now set to static IP mode and ready for use.

• Setting DHCP mode

1. Connect to the AT-GAIN-60 using Telnet.
2. At the command line, execute the IPDHCP command using the on argument, as shown. All characters are case-sensitive.
   IPDHCP on
3. The AT-GAIN-60 will automatically reboot. The unit is now set to DHCP mode and will be assigned an IP address by the DHCP server (if present).
Using the Web GUI

The Network page (page 28) in the web GUI allows the option for the AT-GAIN-60 to use either DHCP or static IP mode. In order to access the web GUI, the IP address of the AT-GAIN-60 must be known.

1. Open the desired web browser and enter the IP address of the AT-GAIN-60.

2. Log in, using the required credentials. The factory-default username and password are listed below:

   Username: admin
   Password: Atlona

3. Click the Network tab, located on the side menu bar.

   ![Web GUI Screenshot]

   - **Setting static IP mode**
     a. Click OFF, next to DHCP.
     b. Enter the required information in the IP Address, Subnet, and Gateway fields.

   - **Setting DHCP mode**
     a. Click ON, next to DHCP.

4. Click the Save button to save the changes.
5. The following message box will be displayed:

![Warning Message]

6. Click **OK** to accept the changes or click **Cancel** to abort changes and return to the **Network** page.
Basic Operation

LED Indicators

The LED indicators on the front panel, provide information on the current state of the AT-GAIN-60. Refer to the table below for more information.

![LED Indicators Diagram]

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<thead>
<tr>
<th>LED Indicator</th>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR</td>
<td>Solid green</td>
<td>Unit is powered.</td>
</tr>
<tr>
<td></td>
<td>Solid amber</td>
<td>Unit is in low power consumption mode.</td>
</tr>
<tr>
<td></td>
<td>Flashing green</td>
<td>Unit is in blink mode.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Unit is not powered.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Check the power cable between the AT-GAIN-60 and the electrical outlet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Make sure that the electrical outlet is live.</td>
</tr>
<tr>
<td>1</td>
<td>Solid green</td>
<td>The AUDIO IN 1 port is the active audio input.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>The AUDIO IN 1 port is not the active audio input.</td>
</tr>
<tr>
<td>2</td>
<td>Solid green</td>
<td>The AUDIO IN 2 ports (RCA) are the active audio input.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>The AUDIO IN 2 ports (RCA) are not the active audio input.</td>
</tr>
<tr>
<td>MUTE</td>
<td>Solid red</td>
<td>Audio output is muted.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Audio muting is disabled.</td>
</tr>
<tr>
<td>Audio Output Indicators</td>
<td>Solid green</td>
<td>Acceptable range for output volume.</td>
</tr>
<tr>
<td></td>
<td>Solid amber</td>
<td>Output volume level is approaching audio clipping.</td>
</tr>
<tr>
<td></td>
<td>Solid red</td>
<td>Audio clipping.</td>
</tr>
</tbody>
</table>

**NOTE:** All LED indicators on the front panel will flash rapidly when a firmware update is in progress. Refer to Updating the Firmware (page 34) for more information.
Locking the Front Panel

The buttons on the front panel can be locked or unlocked. Locking the front-panel buttons prevents accidental pressing of the buttons, which may occur when the unit is mounted in a rack environment. Locking and unlocking of the front-panel buttons is managed through the web GUI or by executing the Lock and Unlock API commands. Refer to the API documentation for more information.

1. Login to the web GUI. Refer to Introduction to the Web GUI (page 24) for more information.
2. Click Control, under the Settings menu, on the left side of the page.
3. Click LOCK to lock the front-panel buttons. To unlock the front-panel buttons, click UNLOCK.

Locking the front panel does not affect access to the web GUI or Telnet sessions.
Power Modes

The following section discusses the power mode features which have been integrated into the AT-GAIN-60. Power modes are located under the Control tab within the web GUI.

1. Open the desired web browser and enter the IP address of the AT-GAIN-60.
2. Log in, using the required credentials. The factory-default username and password are listed below:
   - Username: admin
   - Password: Atlona
3. Click the Control tab, located on the side menu bar. The Control Settings section will be displayed.

![Control Settings](image)

Powering On or Off

Click the OFF option to power-off the AT-GAIN-60. When powered-off, audio output is disabled but the LAN port will remain active. To power-on the AT-GAIN-60, after it has been powered-off, any one of the following methods may be used:

- Set Power to the ON setting, in the web GUI.
- Execute the PWON command using RS-232 or Telnet.
- Press any of the buttons on the front panel to wake the unit.
Basic Operation

Input Signal Detection / Power On

When enabled, Auto Power On mode will automatically power-on the AT-GAIN-60 when an input signal is detected on either the AUDIO IN 1 or AUDIO IN 2 port. When the AT-GAIN-60 is powered-on from a low-power state, the PWR, INPUT, and VOL LED indicators will be illuminated. By default this feature is enabled. The table below lists the minimum frequency / voltage requirements in order for the AT-GAIN-60 to be powered from a low-power state.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Frequency</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance</td>
<td>1 kHz</td>
<td>3 mV</td>
</tr>
<tr>
<td>Unbalance</td>
<td>1 kHz</td>
<td>1.5 mV</td>
</tr>
</tbody>
</table>

1. Login to the web GUI. Refer to Introduction to the Web GUI (page 24) for more information.
2. Click the Control tab, located on the side menu bar. The Control Settings section will be displayed.
3. Click the ON option, if not already selected, to enable Auto Power On mode.
4. Click OFF to disable this feature.

5. Click Audio in the side menu bar. The Audio section will be displayed.
6. Click the Input Selection drop-down list and select the desired initial input: Balance or Unbalance. Select the Balance option to set the active audio input to the AUDIO IN 1 port. Select the Unbalance option to set the AUDIO IN 2 port the active audio input.

IMPORTANT: When Auto Power On is set to ON and an audio signal is present, the AT-GAIN-60 cannot be powered-off in the web GUI or through a Telnet session. To control powering of the AT-GAIN-60, regardless of whether or not an input signal is present, the Auto Power Off feature must be set to OFF.
Auto Power Down Mode

Enabling this mode will automatically power-down the AT-GAIN-60 if no audio input signal is present on either the AUDIO IN 1 port or the AUDIO IN 2 port, after the specified time interval. When the AT-GAIN-60 enters Auto Power Down mode, the Power option will be set to OFF and the front-panel LED indicators will turn off. In Auto Power Down mode, power consumption is limited to 1.2 W. By default this feature is enabled.

Note that when this mode is enabled, the AT-GAIN-60 only monitors the existence of an audio input signal, not the physical audio connection. Refer to the next page for instructions.

1. Login to the web GUI. Refer to Introduction to the Web GUI (page 24) for more information.
2. Click the Control tab, located on the side menu bar. The Control Settings section will be displayed.
3. Click the ON option, next to Auto Power Off, if it is not selected.
4. Enter the time interval in the Auto Power Down Timer (min) field. This is the amount of time which must elapse before the AT-GAIN-60 will power-down. This value can be set from 5 to 20 minutes. The default setting is 15 minutes.

<table>
<thead>
<tr>
<th>Auto Power On</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Power Down</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>Auto Power Down Timer (min)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Factory Default</td>
<td>Reset Now</td>
<td></td>
</tr>
</tbody>
</table>

Factory Reset

If necessary, the AT-GAIN-60 can be reset to factory-default settings. Note that the AT-GAIN-60 will be placed in DHCP mode, as part of the reset procedure. The AT-GAIN-60 can also be reset through the web GUI. Refer to the Control page (page 30) for more information.

1. Press and hold the RESET button on the back panel, using the end of a paper clip or other pointed object, for approximately 10 seconds.
2. Release the RESET button once a “clicking” sound is heard.
3. Factory reset is complete.
The AT-GAIN-60 includes a built-in web GUI. Atlona recommends that the web GUI be used to set up the AT-GAIN-60, as it provides intuitive management of all features.

The AT-GAIN-60 is shipped with DHCP enabled. Once connected to a network, the DHCP server will automatically assign an IP address to the unit. Use an IP scanner to determine the IP address of the AT-GAIN-60. If a static IP address is desired, refer to IP Configuration (page 15). The default static IP address of the AT-GAIN-60 is 192.168.1.254.

1. Launch a web browser.
2. In the address bar, type the IP address of the AT-GAIN-60.
3. The Login page will be displayed.

![Login Page]

4. Type admin, using lower-case characters, in the Username field.
5. Type Atlona in the Password field. This is the default password. The password field is case-sensitive. When the password is entered, it will be masked. The password can be changed, if desired. Refer to Users page (page 32) for more information.
6. Click the Login button or press the ENTER key on the keyboard.
7. The **Status** page will be displayed.

8. To logout of the web GUI at any time, click **Logout** on the side menu bar. Once logged out, the AT-GAIN-60 will display the login screen.

**Menu Bar**

The window on the left side of the screen is the menu bar. The menu system is divided into three sections: **Home**, **Settings**, and **Configuration**. When the mouse is moved over each menu item, it will be highlighted in black. Click the menu item to go that page.
Status page

Download Log
Click this button to download a log of command events to the computer’s hard disk.

Model
The SKU of this product.

Firmware
The current firmware version installed.

MAC Address
The MAC address of the AT-GAIN-60.

Serial Number
The serial number of the AT-GAIN-60.

Operating Time
The time in which the unit has been in the “on” state since it was last rebooted.

Save
Click this button to save the system settings to a local file. System settings files are saved in .bin (binary) format. The default system settings filename is systemsettings.bin. It is recommended to save the system settings before performing a firmware update.

Status (progress bar)
Displays the status of saving and loading system settings files.

Browse
Click this button to select the desired system settings file. Click the Load button to upload the settings file to the AT-GAIN-60.
**Firmware page**

**Current Firmware**
The current firmware version installed.

**Status** (progress bar)
Displays the status of loading new firmware during a firmware update procedure.

**Browse**
Click this button to select the firmware file. Click the **Load** button to begin the update procedure. Refer to **Updating the Firmware** (page 34) for more information.

**Load**
Click this button to upload the selected firmware file to the AT-GAIN-60. While the system settings file is being loaded, the **Status** progress bar will display the current progress.
Network page

After pressing the **Save** button, a reboot message will appear at the top of the web GUI. The AT-GAIN-60 must be rebooted when any of the network settings have changed.

**DHCP**
Click the **ON** button to enable DHCP. Click the **OFF** button to enable static IP mode. In static IP mode, the IP Address, Subnet, and Gateway fields can be modified.

**IP Address**
Enter the IP address of the AT-GAIN-60 in this field. This field can only be changed when DHCP is set to **OFF**.

**Subnet**
Enter the subnet mask in this field. This field can only be changed when DHCP is set to **OFF**.

**Gateway**
Enter the gateway (router) IP address in this field. This field can only be changed when DHCP is set to **OFF**.

**Telnet Port**
Enter the Telnet listening port in this field. The default port is 23.

**HTTP Port**
Enter the HTTP listening port in this field. The default port is 80. This field cannot be modified.

**IP Timeout**
Enter the time-out interval (in seconds) in this field. This field represents the time interval before the TCP/IP connection times out.

**Hostname**
Enter the desired hostname in this field. By default, the hostname is the product (SKU) plus the last five digits of the unit serial number.
Telnet Login Mode
Click the **ON** button to prompt for username and password credentials. Username and password credentials are the same as the web GUI login credentials. Click the **OFF** button to create an open Telnet session that does not require login credentials. The default setting is **OFF**.

Save / Cancel
Click the **Save** button after any changes have been made. Click the **Cancel** button to abort changes.
Control page

Power
Click the **ON** button to power-on the AT-GAIN-60. Click the **OFF** button to power-off the unit.

**Auto Power On**
Settings this feature to ON will automatically power-on the AT-GAIN-60 when an incoming audio signal is detected. The default setting is ON. Refer to **Input Signal Detection / Power On (page 22)** for more information.

**Auto Power Down**
Enables or disables auto power down mode. Refer to **Auto Power Down Mode (page 23)** for more information.

**Auto Power Down Time (min)**
Specify the time interval before the AT-GAIN-60 goes into auto power down mode. Refer to **Auto Power Down Mode (page 23)** for more information. The default setting is 15 minutes.

**Factory Default**
Click this button to reset the AT-GAIN-60 to factory-default settings.

**Blink**
Click the **Blink** button to start blinking the PWR LED indicator. This feature is useful to identify the unit when multiple units are being used.

**Front Panel**
Click to lock or unlock the buttons on the front panel. Locking the front panel buttons is useful in preventing accidental button activation within rack environments.
The Web GUI

**RS-232**
Sets the RS-232 settings used by the control device. The default settings are 115200, 8, None, 1.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baud rate</td>
<td>Sets the baud rate. The following options are available: 110, 300, 600, 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200.</td>
</tr>
<tr>
<td>Data bit</td>
<td>Sets the number of data bits used to represent each character of data. The following options are available: 5, 6, 7, or 8.</td>
</tr>
<tr>
<td>Parity</td>
<td>Sets the parity bit, which can be included with each character to detect errors during the transmission of data. The following options are available: None, Odd, or Even.</td>
</tr>
<tr>
<td>Stop bit</td>
<td>Sets the stop bit. Stop bits are sent at the end of each character, allowing the client to detect the end of a character stream. The following options are available: 1 or 2.</td>
</tr>
</tbody>
</table>
The Web GUI

Users page

**Current Username**
The administrator username. This field cannot be changed.

**Password**
Enter the password for the administrator in this field. Special characters (e.g. #, %, @, &, etc.) are not permitted.

**Change Admin Password**

- **Old password**
Enter the current password in this field. The default password is Atlona.

- **New Password**
Enter the new password in this field.

- **Confirm Password**
Verify the new password by entering it in this field.

**Save / Cancel**
Click the **Save** button to apply all changes. Click the **Cancel** button to abort changes.
Audio page

Input Selection
Click this drop-down list to select the audio input: **Balance** or **Unbalance**. Select the **Balance** option to set the active audio input to the **AUDIO IN 1** port. Select the **Unbalance** option to set the **AUDIO IN 2** port the active audio input.

Equalization
Click and drag the **Bass** and **Treble** sliders to the desired settings. The **Bass** and **Treble** sliders have a range from -10 to +10. Click and drag the **Volume** slider to adjust the output volume to the desired level. Volume can be adjusted from 0 to 100. Note that the output volume is not measured in decibels. The default value is 30.

Auto Reset
Click this button to reset the Bass, Treble, and Volume to the default settings. Refer to Default Settings (page 39) for more information.

Mute
Click this button to mute the audio output.
Appendix

Updating the Firmware

The AT-GAIN-60 can only be updated through the web GUI.

**IMPORTANT:** As of this writing, Google Chrome is the only browser that is supported for firmware updates. Other browsers will be supported in future versions of firmware.

Required items:

- Firmware
- IP address of the AT-GAIN-60
- Computer on the same network as the AT-GAIN-60
- Username and password to access the web GUI

1. Verify that an Ethernet cable is connected between the AT-GAIN-60 and the network. The computer used to access the web GUI must be on the same network as the AT-GAIN-60.

2. Type the IP address of the AT-GAIN-60 into the web browser, as shown in the example below.

3. The login screen will be displayed. Login using the username and password. The default login credentials are:
   - Username: admin
   - Password: Atlona
4. Click **Status** in the menu bar on left side of the screen.

5. Click the **Save** button.

6. The **Save As** dialog box will be displayed. Select the folder where the file will be saved. Click the **Save** button to save the file. The file is saved in .bin format and uses the default name of **systemsettings.bin**.

7. Click **Firmware** on the left side of the screen.

8. Click the **Browse** button to select the firmware file.

9. Click the **Load** button to begin the upgrade process. Once the update has been completed, the login screen will be displayed.

**WARNING:** Power must not be disconnected or interrupted during the firmware update process.
Rack Mount Installation

The AT-GAIN-60 can be mounted in different ways, based on the number of units that are being installed. In order to rack-mount the AT-GAIN-60, the AT-RACK-1RU will need to be purchased from atlona.com.

The AT-RACK-1RU can be used to either mount three AT-GAIN-60 units at once or it can be used to mount two AT-GAIN units.

**IMPORTANT**: Before mounting the AT-GAIN-60 to the AT-RACK-1RU, remove the rubber feet from the bottom of the unit.

**Mounting three AT-GAIN-60 units**

1. Turn the AT-GAIN-60 so that the bottom of the unit is facing upward.
2. Locate the two sets of holes on either side of the unit, as shown.
Appendix

3. Mount each of the AT-GAIN-60 units in the rack. Match the mounting holes on the bottom of each AT-GAIN-60 with the holes in the rack tray, marked in the illustration below.

4. Install the rack tray in the rack shelf and secure the rack tray with two screws on either side.

**IMPORTANT:** To prevent possible damage to the device, rack, and/or screws, do not overtighten or use high-torque devices when securing the devices to the rack.
Mounting two AT-GAIN-60 units

The following provides an alternate method for mounting AT-GAIN-60 units closer together. This option provides extra space in the AT-RACK-1U for cabling, etc.

1. Turn the AT-GAIN-60 so that the bottom of the unit is facing upward.

2. Locate the two sets of holes on either side of the unit. Refer to Rack Mount Installation (page 36) for the location of the mounting holes.

3. Mount each of the AT-GAIN-60 units in the rack. Match the mounting holes on the bottom of each AT-GAIN-60 with the holes marked in the illustration below.

4. Install the rack tray in the rack shelf and secure the rack tray with two screws on either side.

**IMPORTANT:** To prevent possible damage to the device, rack, and/or screws, do not overtighten or use high-torque devices when securing the devices to the rack.
Default Settings

The following table lists the factory-default settings for the AT-GAIN-60.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Network</strong></td>
<td></td>
</tr>
<tr>
<td>DHCP</td>
<td>ON</td>
</tr>
<tr>
<td>Static IP address</td>
<td>192.168.1.254</td>
</tr>
<tr>
<td>Subnet</td>
<td>255.255.0.0</td>
</tr>
<tr>
<td>Gateway</td>
<td>192.168.1.1</td>
</tr>
<tr>
<td>Telnet Port</td>
<td>23</td>
</tr>
<tr>
<td>HTTP Port</td>
<td>80</td>
</tr>
<tr>
<td>IP Timeout</td>
<td>300</td>
</tr>
<tr>
<td>Hostname</td>
<td>AT-GAIN-60-[last five digits of serial number]</td>
</tr>
<tr>
<td>Telnet Login Mode</td>
<td>OFF</td>
</tr>
<tr>
<td><strong>Control</strong></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>OFF</td>
</tr>
<tr>
<td>Auto Power On</td>
<td>ON</td>
</tr>
<tr>
<td>Auto Power Down</td>
<td>ON</td>
</tr>
<tr>
<td>Auto Power Down Timer (min)</td>
<td>15</td>
</tr>
<tr>
<td>Blink</td>
<td>Disabled</td>
</tr>
<tr>
<td>Lock</td>
<td>UNLOCK</td>
</tr>
<tr>
<td>RS-232</td>
<td>Baud rate 115200</td>
</tr>
<tr>
<td></td>
<td>Data bits 8</td>
</tr>
<tr>
<td></td>
<td>Parity None</td>
</tr>
<tr>
<td></td>
<td>Stop bits 1</td>
</tr>
<tr>
<td><strong>Users</strong></td>
<td></td>
</tr>
<tr>
<td>Admin username</td>
<td>admin</td>
</tr>
<tr>
<td>Admin password</td>
<td>Atlona</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
</tr>
<tr>
<td>Input Selection</td>
<td>Balance</td>
</tr>
<tr>
<td>Equalization bands</td>
<td></td>
</tr>
<tr>
<td>Bass</td>
<td>0</td>
</tr>
<tr>
<td>Treble</td>
<td>0</td>
</tr>
<tr>
<td>Volume</td>
<td>30</td>
</tr>
</tbody>
</table>
## Specifications

### Connectors, Controls, and Indicators

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAN</td>
<td>1 - RJ45</td>
</tr>
<tr>
<td>AUDIO IN 1</td>
<td>1 - 5-pin captive screw, balanced: 10 kΩ</td>
</tr>
<tr>
<td>AUDIO IN 2</td>
<td>2 - RCA-type, female, unbalanced: 20 kΩ</td>
</tr>
<tr>
<td>4 / 8 Ω OUT</td>
<td>1 - 4-pin, 5.08 mm lock-down screw connector</td>
</tr>
<tr>
<td>24 / 70 / 100V</td>
<td>1 - 5-pin, 3.5mm</td>
</tr>
<tr>
<td>Power</td>
<td>1 - 3.5 mm barrel, locking</td>
</tr>
<tr>
<td>INPUT GAIN</td>
<td>1 - Rotary pot</td>
</tr>
<tr>
<td>MODE</td>
<td>1 - Slider switch, 5-pole, 24V / 70V / 100V / 8 Ω / 4 Ω</td>
</tr>
<tr>
<td>RESET</td>
<td>1 - Push button, tact-type</td>
</tr>
<tr>
<td>INPUT</td>
<td>1 - Push button, tact-type</td>
</tr>
<tr>
<td>MUTE</td>
<td>1 - Push button, tact-type</td>
</tr>
<tr>
<td>VOL</td>
<td>2 - Push buttons, tact-type</td>
</tr>
<tr>
<td>PWR</td>
<td>1 - LED indicator, green</td>
</tr>
<tr>
<td>1 / 2 Input Indicators</td>
<td>2 - LED indicators, green</td>
</tr>
<tr>
<td>Mute Indicator</td>
<td>1 - LED indicator, red</td>
</tr>
<tr>
<td>Audio Level Indicator</td>
<td>1 - Multi-LED</td>
</tr>
</tbody>
</table>

### Input Signal

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog Input</td>
<td>Balanced: 20 kΩ, unbalanced: 10 kΩ</td>
</tr>
<tr>
<td>Input Gain</td>
<td>Adjustable, -22 dB to 0 dB</td>
</tr>
<tr>
<td>CMRR</td>
<td>49 dB / 67 dB</td>
</tr>
<tr>
<td>Detection Threshold</td>
<td>0 dBV = 2.218 dBu</td>
</tr>
</tbody>
</table>

### Output Signal

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distributed speakers (mono)</td>
<td>24 V / 70 V / 100 V</td>
</tr>
<tr>
<td>Program speakers (stereo)</td>
<td>4 Ω / 8 Ω, line-level</td>
</tr>
<tr>
<td>Power</td>
<td>24 V = 60 Vrms (high-Z)</td>
</tr>
<tr>
<td></td>
<td>70 V = 60 Vrms (high-Z)</td>
</tr>
<tr>
<td></td>
<td>100 V = 60 Vrms (high-Z)</td>
</tr>
<tr>
<td></td>
<td>4 / 8 Ω = 30 W per channel</td>
</tr>
</tbody>
</table>

### Audio Processing

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Formats</td>
<td>24-bit uncompressed, selectable at 44.1, 48, 88.2, and 96 kHz sampling rate</td>
</tr>
<tr>
<td>Signal Processing</td>
<td>Volume, Auto on/off signal sensing, 80 Hz HPF</td>
</tr>
<tr>
<td>2-band EQ</td>
<td>Bass / Treble, adjustable: -10 to +10 dB</td>
</tr>
</tbody>
</table>
## Appendix

### Audio Performance

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response</td>
<td>20 Hz - 20 kHz, ±0.2 / - 2 dB @ 4 Ω load</td>
</tr>
<tr>
<td>THD + N</td>
<td>&lt; 0.1% @ 1 kHz, 3 db below clipping</td>
</tr>
<tr>
<td>SNR</td>
<td>&gt; 95 dBA WTD</td>
</tr>
<tr>
<td>Damping Factor</td>
<td>&lt; 48 @ 8 Ω</td>
</tr>
<tr>
<td>Amplifier Type</td>
<td>Class D</td>
</tr>
</tbody>
</table>

### Temperature

<table>
<thead>
<tr>
<th>Condition</th>
<th>Fahrenheit</th>
<th>Celsius</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>32 °F to 122 °F</td>
<td>0 °C to 50 °C</td>
</tr>
<tr>
<td>Storage</td>
<td>-40 °F to 158 °F</td>
<td>-40 °C to 70 °C</td>
</tr>
<tr>
<td>Humidity (RH)</td>
<td>90% RH, non-condensing</td>
<td></td>
</tr>
</tbody>
</table>

### Power

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby Mode</td>
<td>Powers down after 5 - 25 minutes (adjustable) of no signal; complies with ENERGY STAR power consumption limits of &lt; 0.5 W in standby mode</td>
</tr>
<tr>
<td>Consumption</td>
<td>60 W (max.)</td>
</tr>
<tr>
<td>Standby Consumption</td>
<td>&lt; 1.2 W</td>
</tr>
<tr>
<td>Supply</td>
<td>100 - 240 V AC, 50/60 Hz, 60 W</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Inches</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>H x W x D</td>
<td>1.69 x 5.00 x 7.95</td>
<td>43 x 127 x 202</td>
</tr>
</tbody>
</table>

### Weight

<table>
<thead>
<tr>
<th>Device</th>
<th>Pounds</th>
<th>Kilograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device</td>
<td>3.15</td>
<td>1.43</td>
</tr>
</tbody>
</table>

### Certification

<table>
<thead>
<tr>
<th>Device</th>
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