Stereo / Mono
Audio Power Amplifier
60 Watts

Application Programming Interface
## Version Information

<table>
<thead>
<tr>
<th>Version</th>
<th>Release Date</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>May 2018</td>
<td>Initial release</td>
</tr>
<tr>
<td>2</td>
<td>Jul 2019</td>
<td>Added system sta command</td>
</tr>
</tbody>
</table>
# Commands

The following tables provide an alphabetical list of commands available for the AT-GAIN-60. Commands are not case-sensitive. If the command fails or is entered incorrectly, then the feedback is “Unknown command”.

**IMPORTANT:** Each command is terminated with a carriage-return (0x0d) and the feedback is terminated with a carriage-return and line-feed (0x0a).

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>Sets the audio input source to <strong>AUDIO IN 1</strong></td>
</tr>
<tr>
<td>21AV</td>
<td>Sets the audio input source to <strong>AUDIO IN 2</strong></td>
</tr>
<tr>
<td>AVSTA</td>
<td>Displays the currently selected audio source</td>
</tr>
<tr>
<td>AutoSW</td>
<td>Sets the auto-switching mode</td>
</tr>
<tr>
<td>Blink</td>
<td>Enables or disables blinking of the <strong>DEVICE ID</strong> LED indicator on the front panel</td>
</tr>
<tr>
<td>Broadcast</td>
<td>Enables or disables broadcast mode</td>
</tr>
<tr>
<td>Clear</td>
<td>Clears the specified preset from memory</td>
</tr>
<tr>
<td>help</td>
<td>Displays the list of available commands</td>
</tr>
<tr>
<td>IPCFG</td>
<td>Displays the current network settings for the unit</td>
</tr>
<tr>
<td>IPDHCP</td>
<td>Enables or disables DHCP mode on the unit</td>
</tr>
<tr>
<td>IPLogin</td>
<td>Enables or disables login credentials when starting a Telnet session</td>
</tr>
<tr>
<td>IPPort</td>
<td>Sets the Telnet listening port for the unit</td>
</tr>
<tr>
<td>IPStatic</td>
<td>Sets the static IP address, subnet mask, and gateway for the unit</td>
</tr>
<tr>
<td>Mreset</td>
<td>Resets the unit to factory-default settings</td>
</tr>
<tr>
<td>PW</td>
<td>Displays the current power state of the unit</td>
</tr>
<tr>
<td>Reboot</td>
<td>Reboots the unit</td>
</tr>
<tr>
<td>Recall</td>
<td>Recalls the specified preset</td>
</tr>
<tr>
<td>Save</td>
<td>Saves the current configuration to a preset list</td>
</tr>
<tr>
<td>System</td>
<td>Displays the system status</td>
</tr>
<tr>
<td>Type</td>
<td>Displays the model of the unit</td>
</tr>
<tr>
<td>Version</td>
<td>Displays the current firmware version of the unit</td>
</tr>
<tr>
<td>VOL</td>
<td>Sets the level of the output volume</td>
</tr>
<tr>
<td>VOUTMute</td>
<td>Mutes the output volume</td>
</tr>
</tbody>
</table>
## Commands

**11AV**
Sets the audio input source to **AUDIO IN 1**.

<table>
<thead>
<tr>
<th>Syntax</th>
<th>11AV</th>
</tr>
</thead>
</table>

This command does not require any parameters

<table>
<thead>
<tr>
<th>Example</th>
<th>Feedback</th>
</tr>
</thead>
<tbody>
<tr>
<td>11AV</td>
<td>11AV</td>
</tr>
</tbody>
</table>

**21AV**
Sets the audio input source to **AUDIO IN 2**.

<table>
<thead>
<tr>
<th>Syntax</th>
<th>21AV</th>
</tr>
</thead>
</table>

This command does not require any parameters

<table>
<thead>
<tr>
<th>Example</th>
<th>Feedback</th>
</tr>
</thead>
<tbody>
<tr>
<td>21AV</td>
<td>21AV</td>
</tr>
</tbody>
</table>

**AVSTA**
Displays the currently selected audio source.

<table>
<thead>
<tr>
<th>Syntax</th>
<th>AVSTA</th>
</tr>
</thead>
</table>

This command does not require any parameters

<table>
<thead>
<tr>
<th>Example</th>
<th>Feedback</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVSTA</td>
<td>21AV</td>
</tr>
</tbody>
</table>
### AutoSW

Enables or disables auto switching between the **ANALOG IN 1** and **ANALOG IN 2** port. Use the `sta` argument to display the current setting.

**Syntax**

```
AutoSW X
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Value</td>
<td>on, off, sta</td>
</tr>
</tbody>
</table>

**Example**

```
AutoSW on
```

**Feedback**

```
AutoSW on
```

### Blink

Enables or disables blinking of the PWR LED indicator on the front panel. When set to on, the PWR LED indicator button will flash green and can be used to physically identify the unit on a network. The PWR LED indicator will flash until the **Blink off** command is executed. Use the `sta` argument to display the current setting. The default setting is off.

**Syntax**

```
Blink X
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Value</td>
<td>on, off, sta</td>
</tr>
</tbody>
</table>

**Example**

```
Blink on
```

**Feedback**

```
Blink on
```

### Broadcast

Enables or disables broadcast mode. By default, broadcast mode is set to **ON**. When set to **ON**, any system changes will be broadcasted to the web GUI will also be affected on the control system (if connected), via TCP/IP. To separate control between the web GUI and Telnet, set this feature to **OFF**. Command queries such as **IPCFG** and **Type** will only return information to the requester. Use the `sta` argument to display the current setting.

**Syntax**

```
Broadcast X
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Value</td>
<td>on, off, sta</td>
</tr>
</tbody>
</table>

**Example**

```
Broadcast on
```

**Feedback**

```
Broadcast on
```
Commands

Clear

Deletes the specified preset. No space should exist between the first argument and the command. Use the Save command to create and save a preset.

**Syntax**

ClearX

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Preset</td>
<td>1 ... 8</td>
</tr>
</tbody>
</table>

**Example**

Clear1

**Feedback**

Clear1

CSpara

Sets the baud rate, data bits, parity bit, and stop bits for the serial device. Use the sta argument to display the current serial port settings.

**Syntax**

CSpara W X Y Z

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>Baud rate</td>
<td>2400, 4800, 9600, 19200, 38400, 57600, 115200</td>
</tr>
<tr>
<td>X</td>
<td>Data bits</td>
<td>7, 8</td>
</tr>
<tr>
<td>Y</td>
<td>Parity bit</td>
<td>None, Odd, Even</td>
</tr>
<tr>
<td>Z</td>
<td>Stop bits</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

**Example**

CSpara 115200 8 0 1

**Feedback**

CSpara 115200 8 0 1
**Commands**

**help**
Displays the list of available commands. To obtain help on a specific command, enter the `help` command followed by the name of the command.

<table>
<thead>
<tr>
<th>Syntax</th>
<th>help X</th>
</tr>
</thead>
</table>

**Parameter** | **Description** | **Range** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Command name (optional)</td>
<td>Command</td>
</tr>
</tbody>
</table>

**Example**
`help`

**Feedback**
Command Description and parameters
11AV Switch audio output to audio in 1
21AV Switch audio output to audio in 2
AVSTA Display the audio source selected
...

**IPCFG**
Displays the current network settings for the unit.

<table>
<thead>
<tr>
<th>Syntax</th>
<th>IPCFG</th>
</tr>
</thead>
</table>

**Feedback**
Mac Addr: B8:98:B0:05:DF:F7
IP Addr: 10.0.1.101
Netmask: 255.255.255.0
Gateway: 10.0.1.1
Telnet Port: 23
HTTP Port: 80

**This command does not require any parameters**

**Example**
IPCFG
Commands

**IPDHCP**
Enables or disables DHCP mode on the unit.  on = enables DHCP mode; off = disables DHCP mode; sta = displays the current setting.  If this feature is disabled, then a static IP address must be specified for the unit.  Refer to the IPQuit command for more information.

**Syntax**

IPDHCP X

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Value</td>
<td>on, off, sta</td>
</tr>
</tbody>
</table>

**Example**
IPDHCP on  
Feedback
IPDHCP on

**IPLogin**
Enables or disables the use of login credentials when starting a Telnet session on the unit.  If this feature is set to on, then the unit will prompt for both the username and password.  Use the same credentials as the web GUI.  on = login credentials required; off = no login required.  Use the sta argument to display the current setting.

**Syntax**

IPLogin X

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Value</td>
<td>on, off, sta</td>
</tr>
</tbody>
</table>

**Example**
IPLogin off  
Feedback
IPLogin off
**Commands**

**IPPort**

Sets the Telnet listening port for the unit. Use the *sta* argument to display the current setting.

**Syntax**

```
IPPort X
```

**Parameter** | **Description** | **Range**
--- | --- | ---
X | Port | 0 ... 65535, *sta*

**Example**

```
IPPort 23
```

**Feedback**

```
IPPort 23
```

**IPStatic**

Sets the static IP address, subnet mask, and gateway (router) address of the unit. Before using this command, DHCP must be disabled on the unit. Refer to the **IPDHCP** command for more information. Each argument must be entered in dot-decimal notation and separated by a space. The default static IP address is 192.168.1.254.

**Syntax**

```
IPStatic X Y Z
```

**Parameter** | **Description** | **Range**
--- | --- | ---
X | IP address | 0 ... 255 (per byte)
Y | Subnet mask | 0 ... 255 (per byte)
Z | Gateway (router) | 0 ... 255 (per byte)

**Example**

```
IPStatic 192.168.1.112 255.255.255.0 192.168.1.1
```

**Feedback**

```
IPStatic 192.168.1.112 255.255.255.0 192.168.1.1
```

**Mreset**

Resets the unit to factory-default settings.

**Syntax**

```
Mreset
```

**This command does not require any parameters**

**Example**

```
Mreset
```

**Feedback**

```
Mreset
```
**Lock**

Locks the buttons on the front panel, preventing accidental pressing of the buttons when the product is in operation. Use the Unlock command to unlock the buttons on the front panel.

**Syntax**

Lock

This command does not require any parameters

**Example**

Lock

**Feedback**

Lock

**Mreset**

 Resets the unit to factory-default settings.

**Syntax**

Mreset

This command does not require any parameters

**Example**

Mreset

**Feedback**

Mreset

**PW**

Displays the power status of the unit. No space should exist between the first argument and the command. Use the sta argument to display the current setting.

**Syntax**

PW

**Parameter** | **Description** | **Range**
--- | --- | ---
X | State | on, off, sta

**Example**

PWON

**Feedback**

PWON
Commands

**Reboot**

Reboots the unit.

**Syntax**

Reboot

This command does not require any parameters

**Example**

Reboot

**Feedback**

Reboot

**Recall**

Recalls the specified preset. Use the Save command to create and save a preset to memory.

**Syntax**

Recall X

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Preset number</td>
<td>1 ... 8</td>
</tr>
</tbody>
</table>

**Example**

Recall 1

**Feedback**

Recall1
Commands

Save
Saves the current configuration to the specified preset

Syntax
Save X Y

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Preset number</td>
<td>1 ... 8</td>
</tr>
<tr>
<td>Y</td>
<td>Preset name</td>
<td>20 characters (max)</td>
</tr>
</tbody>
</table>

Example
Save 1 my_preset1

Feedback
Save1

System
Displays the system status. The sta argument must be specified.

Syntax
System X

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Constant</td>
<td>sta</td>
</tr>
</tbody>
</table>

Example
System sta

Feedback
Model: AT-GAIN-60
MAC Addr: B8:98:B0:05:E2:49
Address Type: DHCP
IP: 10.20.40.59
Netmask: 255.255.255.0
Gateway: 10.20.40.1
HTTP Port: 80
Telnet Port: 23
Firmware: 1.0.13
On/Up Time: 00:00:19:56
Hostname: AT-GAIN-60-00286
**Commands**

**Type**
Displays the model information of the unit.

**Syntax**

| Type
|---|

**This command does not require any parameters**

**Example**

| Type
|---|

**Feedback**

AT-GAIN-60

**Unlock**
Unlocks the front panel buttons.

**Syntax**

| Unlock
|---|

**This command does not require any parameters**

**Example**

| Unlock
|---|

**Feedback**

Unlock

**Version**
Displays the current firmware version of the unit.

**Syntax**

| Version
|---|

**This command does not require any parameters**

**Example**

| Version
|---|

**Feedback**

1.0.00
VOL

Sets the volume of the output audio signal. The + and - arguments can be used to increase or decrease the volume by 1. Use the sta argument to display the current setting.

Syntax

VOL X

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Level</td>
<td>0 ... 100, sta, +, -</td>
</tr>
</tbody>
</table>

Example

VOL 40

Feedback

VOL 40

VOUTMute

Enables or disables muting of the output audio signal. Use the sta argument to display the current setting.

Syntax

VOUTMute X

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>State</td>
<td>on, off, sta</td>
</tr>
</tbody>
</table>

Example

VOUTMute on

Feedback

VOUTMute on