



## Introduction

The Atлона 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 inputs are provided for system design versatility. The Gain 60 is controllable via TCP/IP or RS-232, and can be integrated with Atлона AV switchers and OmniStream™ AV systems for a wide variety of sound reinforcement applications.

## Applications

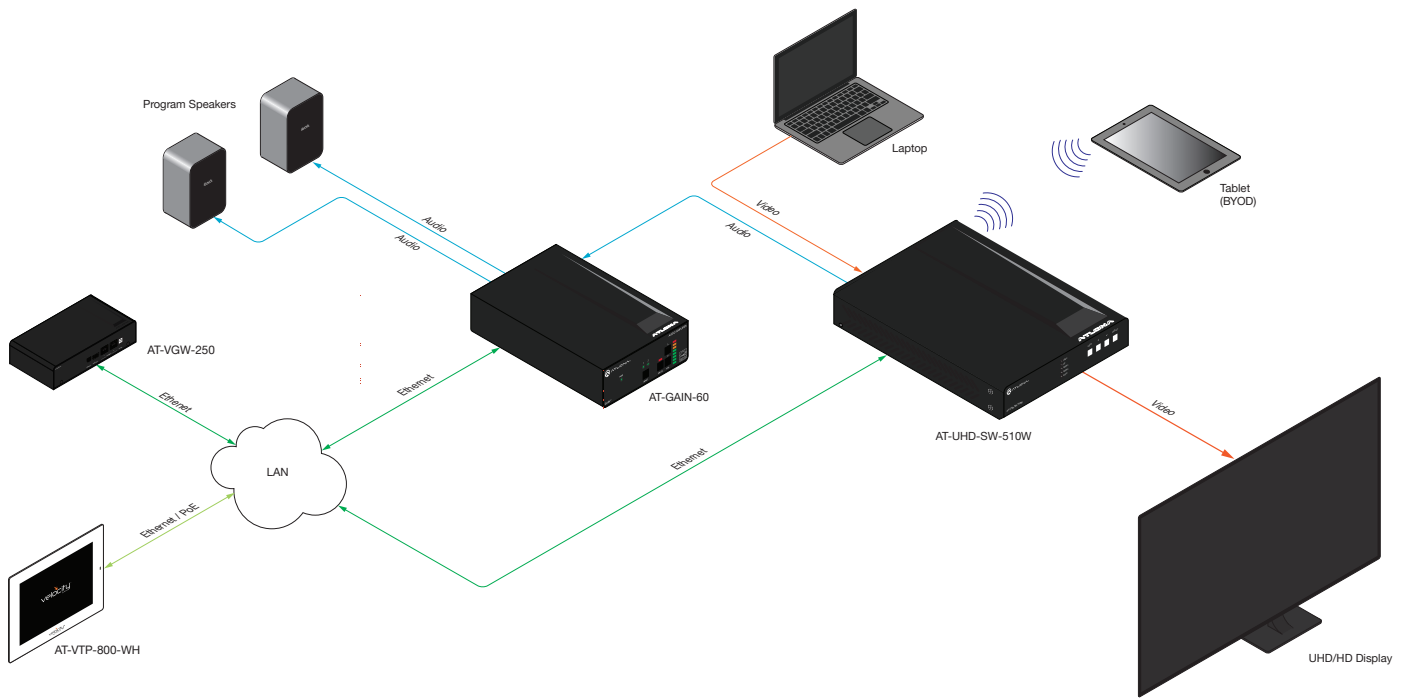
- Meeting rooms, huddle rooms, and classrooms**  
 The Gain 60 can receive audio from an AV switcher or DSP, and then feed the audio to program speakers on the front wall, or a distribution of ceiling speakers.
- Plenum airspaces**  
 The Gain 60 can easily be concealed above a drop ceiling, minimizing the need for AV equipment space in a room.

### Key Features

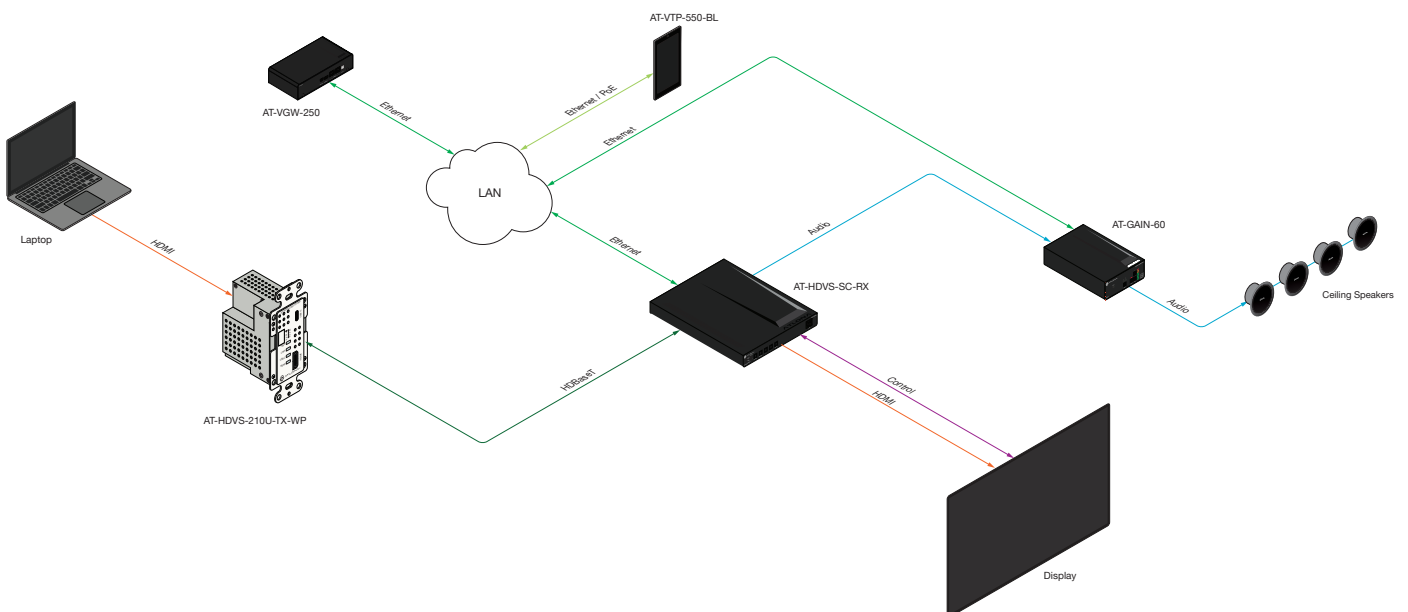
- Selectable low or high impedance operation.
- 2 x 30 watts @ 4 or 8 ohms.
- 1 x 60 watts @ 24, 70, or 100 volts.
- Selectable balanced and unbalanced audio inputs.
- Class-D efficient amplifier design.
- ENERGY STAR qualified.
- Convection cooled – no need for fans.
- UL 2043 plenum-rated – allows 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.

### Connection Diagrams

- AT-GAIN-60 with Program Speakers



- AT-GAIN-60 with Distributed Speakers



### Specifications

Connectors, Controls, and Indicators	
LAN	1 - RJ45
AUDIO IN 1	1 - 5-pin captive screw, balanced: 10 k $\Omega$
AUDIO IN 2	2 - RCA-type, female, unbalanced: 20 k $\Omega$
4 / 8 $\Omega$ OUT	1 - 4-pin, 5.08 mm lock-down screw connector
24 / 70 / 100V	1 - 5-pin, 3.5mm
Power	1 - 3.5 mm barrel, locking
INPUT GAIN	1 - Rotary pot
MODE	1 - Slider switch, 5-pole, 24V / 70V / 100V / 8 $\Omega$ / 4 $\Omega$
RESET	1 - Push button, tact-type
INPUT	1 - Push button, tact-type
MUTE	1 - Push button, tact-type
VOL	2 - Push buttons, tact-type
PWR	1 - LED indicator, green
1 / 2 Input Indicators	2 - LED indicators, green
Mute Indicator	1 - LED indicator, red
Audio Level Indicator	1 - Multi-LED

Input Signal	
Analog Input	Balanced: 20 k $\Omega$ , unbalanced: 10 k $\Omega$
Input Gain	Adjustable, -22 dB to 0 dB
CMRR	49 dB / 67 dB
Detection Threshold	0 dBV = 2.218 dBu

Output Signal	
Distributed speakers (mono)	24 V / 70 V / 100 V
Program speakers (stereo)	4 $\Omega$ / 8 $\Omega$ , line-level
Power	24 V = 60 Vrms (high-Z) 70 V = 60 Vrms (high-Z) 100 V = 60 Vrms (high-Z) 4 / 8 $\Omega$ = 30 W per channel

Audio Processing	
Audio Formats	24-bit uncompressed, selectable at 44.1, 48, 88.2, and 96 kHz sampling rate
Signal Processing	Volume, Auto on/off signal sensing, 80 Hz HPF
2-band EQ	Bass / Treble, adjustable: -10 to +10 dB

Audio Performance	
Frequency Response	20 Hz - 20 kHz, $\pm 0.2$ / - 2 dB @ 4 $\Omega$ load
THD + N	< 0.1% @ 1 kHz, 3 dB below clipping
SNR	> 95 dBA WTD
Damping Factor	< 48 @ 8 $\Omega$
Amplifier Type	Class D

Temperature	Fahrenheit	Celsius
Operating	32 °F to 122 °F	0 °C to 50 °C
Storage	-40 °F to 158 °F	-40 °C to 70 °C
Humidity (RH)	90% RH, non-condensing	

Power	
Standby Mode	Powers down after 5 - 25 minutes (adjustable) of no signal; complies with ENERGY STAR power consumption limits of < 0.5 W in standby mode
Consumption	60 W (max.)
Standby Consumption	< 1.2 W
Supply	100 - 240 V AC, 50/60 Hz, 60 W

Dimensions	Inches	Millimeters
H x W x D	1.69 x 5.00 x 7.95	43 x 127 x 202

Weight	Pounds	Kilograms
Device	3.15	1.43

Certification	
Device	CE, RoHS, WEEE, FCC, ENERGY STAR®