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 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.

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.

Specifications

Input Signal	
Analog	Balanced: 20 kΩ, unbalanced: 10 kΩ
Gain	Adjustable, -22 dB to 0 dB
CMRR	49 dB / 67 dB
Wake Up Threshold	0 dBV = 2.218 dBu, available on Rev B and above

Output Signal	
Distributed speakers (mono)	24 V / 70 V / 100 V
Program speakers (stereo)	4 Ω / 8 Ω, line-level
Power	24 V = 60 Vrms (high-Z) 70 V = 60 Vrms (high-Z) 100 V = 60 Vrms (high-Z) 4 / 8 Ω = 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, 80Hz HPF
2-band EQ	Bass / Treble, adjustable: -10 to +10 dB

Audio Performance	
Frequency Response	20Hz - 20kHz, ±0.2 / - 2 dB @ 4 Ω load
THD + N	< 0.1% @ 1kHz, 3 dB below clipping
SNR	> 95 dBA WTD
Damping Factor	< 48 @ 8 Ω
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 < 0.5W in standby mode
Consumption	60W (max.)
Standby Consumption	< 1.2W
Supply	100 - 240 VAC, 50/60Hz, 60W

Connectors, Controls, and Indicators	
LAN	1 - RJ45
AUDIO IN 1	1 - 5-pin captive screw, balanced: 10 kΩ
AUDIO IN 2	2 - RCA-type, female, unbalanced: 20 kΩ
4 / 8 Ω 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 Ω / 4 Ω
Control Buttons: INPUT, MUTE, VOL, RESET	4 - Push button, tact-type
Reset Button	
Input Indicators: 1, 2	2 - LED indicators, green
Mute Indicator	1 - LED indicator, red
Audio Level Indicator	1 - Multi-LED

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

Weight	Pounds	Kilograms
Device	3.15	1.43

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

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