



Introduction

The Atlona **AT-PA100-G2** is a compact power amplifier designed for low impedance applications. A mode selector switch allows the PA100-G2 to deliver two channels of 20 watts each into 4 ohms, or a single, bridged channel of 40 watts at 8 ohms. This Class D amplifier is energy efficient and convection cooled. The PA100-G2 features a balanced mic/line level audio input with selectable 48 volt phantom power, as well as unbalanced stereo audio input through RCA or 3.5 mm connections. It can deliver stereo or mono output, and provides mixing for the balanced and unbalanced audio inputs, each with independent gain and mute control. 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 PA100-G2 is controllable via RS-232, or through IR with the optional AT-PA1-IR-G2 remote control kit.

Applications

- **Meeting rooms, huddle rooms, and classrooms**
The PA100-G2 can receive audio from an AV switcher or DSP, and then feed the audio to program speakers.
- **Residential and light commercial installations**
This amplifier can receive the audio output from an HDBaseT or AV over IP endpoint, delivering audio to speakers in a room or any other designated listening zone.

Key Features

- Selectable stereo, dual mono, and bridged output modes.
- 2 x 20 watts @ 4 ohms (stereo or dual L+R mono).
- 1 x 40 watts @ 8 ohms (bridged L+R mono).
- Balanced mic/line level input with selectable 48 phantom power.
- Unbalanced stereo line level input available through RCA or 3.5 mm connectors.
- Microphone and line level audio mixing.
- Unbalanced line level output for pass-through to an additional amplifier or audio system.
- Class D efficient amplifier design.
- Convection cooled – no need for fans.
- Automatic standby mode to minimize power consumption.
- Bass and treble tone controls.
- Independent gain and mute control for balanced and unbalanced inputs.
- RS-232 and IR control of volume level, muting, input selection, and tone controls.
- IR control available with optional AT-PA1-IR-G2 remote control kit.
- Top panel button controls for input selection, mute, mic and line volume, and tone controls.
- Front panel signal status LEDs for input selection, mute, and user controls.
- Compact, surface-mountable enclosure.
- Includes user manual and external universal power supply.
- Award-winning 10 year limited product warranty.

Specifications

Audio	
Rated Output	20 W x 2 40 W x 1 (bridged operation)
Gain	32 dB
Frequency Range	20 Hz to 20 kHz
Signal-to-Noise Ratio	Signal/Noise Ratio: 80dB (at max output)
THD	1% @ 1 kHz, 0.3% @ 20 kHz (nominal)
Input Impedance	Input 1 & 2: > 10 k Ω
MIC Input Impedance	48V: 35 k Ω , MIC: 10 k Ω , LINE: 75 k Ω
Output Impedance	3.5mm Loop Out: 50 Ω stereo, Speaker out: 4 to 8 Ω amplifier
Stereo Channel Separation	> 75 dB from 20 Hz to 20 kHz
Common Mode Rejection Ratio	> 70 dB from 20 Hz to 20 kHz
MIC Audio Detection Delay	1 ms

Control	
RS-232	Device control and configuration; supports baud rates from 2400 to 115200
IR	Device control

Connectors	
Audio inputs	2 - RCA connectors 1 - 3.5 mm mini-stereo 1 - 3-pin captive screw
Audio outputs	1 - 4-pin captive screw block 1 - 3.5 mm mini-stereo, loop out
IR	1 - 3.5 mm mini-mono
RS-232	1 - 3-pin captive screw
24V	1 - 2.5 mm, barrel type

Controls and Indicators	
Controls INPUT MIC/LINE/BASS/TREBLE VOL UP/VOL DN/MUTE STEREO/MONO/BRIDGE 48V/MIC/LINE	1 - momentary, tact type (selects between audio input 1 and 2) 1 - momentary, tact type 3 - momentary, tact type 1 - slider switch, 3-position 1 - slider switch, 3-position
Indicators INPUT MIC/LINE/BASS/TREBLE VOL UP/VOL DN/MUTE	2 - LED, green 4 - LED, green 3 - LED, green

Power	
Consumption	3.6 W (ideal)
External Power Supply	Input: 100 - 240 V AC 50/60 Hz Output: 24 V DC
Safety	CE, FCC, RoHS, cULus, RCM, CCC

Environmental	
Operating Temperature	32 to +122 °F 0 to +50 °C
Storage Temperature	-4 to +140 °F -20 to +60 °C
Operating Humidity (RH)	+20 to +90%, non-condensing

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.02 x 8.62 x 5.98	26 x 219 x 152
Power Supply	1.34 x 2.02 x 4.65	34 x 51.4 x 118

Weight	Pounds	Kilograms
Device	0.66	0.3

Certification	
Device	CE, FCC

Accessories

SKU	Description
AT-PA1-IR-G2	IR Remote Control for AT-PA100-G2

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