

[P3-35] 3-Channel Amplifier

Preliminary Technical Information for System Engineers



DESCRIPTION

This small amplifier was engineered for discreet, versatile amplification in home theater audio and small commercial applications. Designed for use with Teatro® soundbars and other high-fidelity speakers, the P3-35 provides 50 watts per channel into 8 ohms (2 channel operation) or 35 watts per channel into 8 ohms (3 channel operation). Optical, analog and Bluetooth® inputs are provided, enabling direct connection from most TVs or monitors. In addition to the speaker outputs, the P3-35 includes a line level subwoofer output. Dolby Digital® decoding is also provided. The P3-35 may be controlled via RS232 and will learn IR codes for volume control.

P3-35 PRELIMINARY PRODUCT SPECIFICATIONS

AMPLIFIER POWER	2 Channel - 50 watts RMS/CH >1% @ 8 ohms, 55 watts @ 4 ohms 3 Channel - 35 watts RMS/CH >1% @ 8 ohms, 40 watts @ 4 ohms
CROSSOVER FREQUENCY	High Pass/Low Pass 120 Hz @ 12 dB/octave
GAIN	34 dB (8 ohms)
FULL RANGE RESPONSE	10 Hz - 20 kHz +/- .5 dB @ 1 watt RMS 8 ohms >.1% THD
FREQUENCY EQ	+3 dB Switchable @ 120 Hz, 2 kHz, 8 kHz
INPUT SENSITIVITY	400 mV for full output
THD + NOISE	>.1% below rated output power
SIGNAL TO NOISE	Better than 84 dB unweighted
LEARNING REMOTE CONTROL	On/Off, Volume Up/Down, Mute - IR/RS-232
INPUTS	10K Unbalanced line input stereo analog, Optical digital 2 or 3 channel, RS232 control, Bluetooth, External IR
PROTECTION FEATURES	Amplifier - Soft Clipping, Short Circuit/Overload, Thermal overload protection Power Supply - Thermal protection, Over current protection, Short circuit protection
POWER SUPPLY	Input: 100-240VAC 50/60 Hz, UL-CUS, FCC, CE, TUV, SUD, PSB, PSE Output: 32VDC @ 3.75A
DIMENSIONS (OVERALL)	1.25" H x 3.9" W x 7.25" D
WEIGHT (AMP ONLY)	.93 lbs.
AMP CERTIFICATIONS	ETL-C/US, ANSI/UL 60065, FCC, CCC, CE, RoHS
OPERATING TEMP RANGE	-20°F - 150°F

- PRELIMINARY TECHNICAL INFO -

- 35 Watts per channel at 8Ω (3 channels)
- 50 Watts per channel at 8Ω (2 channels)
- IR learning for volume control via TV remote
- Bluetooth® connectivity
- Dolby Digital® decoding
- 8" H x 4" W x 1.125" D

APPLICATIONS

The P3-35 is ideal for powering passive soundbars. With its built-in Dolby Digital® decoding and Bluetooth® connectivity, it offers the functionality of much larger, more complex pieces of equipment in a small form factor. Its small size allows integrators to easily place it near the audio source without taking up valuable cabinet space. For commercial applications, the P3-35 is a good complement for digital signage installations, allowing localized amplification of speakers associated with a digital signage display. It is also useful for educational video carts and videoconferencing rollout carts.