

XPA 2004

FOUR CHANNEL POWER AMPLIFIER
200 WATTS PER CHANNEL

- Four low impedance outputs for multi-channel applications
- 800 watts rms output power:
4 x 200 watts @ 4 ohms
- ENERGY STAR® qualified
- Professional grade signal-to-noise and THD performance
- Extron Patented CDRS™ - Class D Ripple Suppression
- Convection cooled, fanless operation
- Ultra low inrush current - eliminates need for power sequencing
- 1U full rack enclosure



The Extron XPA 2004 is a power amplifier that features an Extron exclusive, highly efficient, advanced Class D amplifier design with patented CDRS technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifier designs. The XPA 2004 four channel power amplifier offers 200 watts per channel output into 4 ohms, and is ideal for large, high-powered, professional integration projects.



Extron. Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron XTRA Series **XPA 2004** is a full rack-sized, four channel power amplifier designed for high-powered, professional integration projects. This professional grade amplifier delivers 800 watts of continuous output power. The XPA 2004 four channel power amplifier offers 200 watts per channel output into 4 ohms, a 100 dB signal-to-noise ratio, and 0.05% THD. This ENERGY STAR qualified amplifier features an Extron exclusive, highly efficient, advanced Class D amplifier design with patented CDRS - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifier designs. This Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- **200 watts rms per channel into 4 ohms, 100 watts rms per channel into 8 ohms** – The XPA 2004 is designed for large, high-powered, professional integration projects, and features two channels of 400 watts rms when in bridged mode.
- **ENERGY STAR qualified** – The XPA 2004 is an ENERGY STAR qualified amplifier and energy efficient product that conserves energy and reduces costs.
- **Professional grade signal-to-noise and THD performance** – The XPA 2004 delivers professional grade performance with 100 dB signal-to-noise ratio, and 0.05% THD.
- **Extron Patented CDRS - Class D Ripple Suppression** – CDRS is an Extron Patented technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifier designs. CDRS eliminates the high frequency switching ripple characteristic of Class D amplifiers, a source of RF emissions which can interfere with sensitive A/V equipment such as wireless microphones.
- **Convection cooled, fanless operation** – The XPA 2004 does not require internal fans or vents for cooling, ensuring quiet, reliable operation. It generates substantially less heat than similar power amplifier designs.
- **Ultra low inrush current - no need for power sequencing** – Allows many XTRA Series amplifiers to be powered on simultaneously without overloading power circuits. Eliminates the need for power sequencing.
- **Power factor correction** – The XPA 2004 features power factor correction technology that smoothes out the high peak currents of the amplifier's current draw, thus minimizing the presence of high frequency harmonics on the AC power line, and therefore preventing audible artifacts from being transmitted to other audio equipment in the system.
- **1U full rack enclosure** – With the capability to deliver full-sized amplifier power in one half the size of many comparable power amplifiers, the XPA 2004 reduces rack space requirements for many installations.

SPECIFICATIONS

AUDIO		
Voltage gain	23x (27 dB)	
Crosstalk	>100 dB @ 1 kHz	
CMRR	75 dB @ 1 kHz (typical)	
AUDIO INPUT		
Number/signal type	2 stereo or 4 mono, balanced/unbalanced	
Connectors	(4) 3.5 mm captive screw connectors, 3 pole	
Impedance	>10k ohms unbalanced/balanced, DC coupled	
Nominal level	+4 dBu (1.23 Vrms), balanced	
Maximum level	+20 dBu (7.75 Vrms), balanced	
Input sensitivity	+4 dBu (1.23 Vrms)	
AUDIO OUTPUT		
Number/signal type	2 stereo, 4- or 8-ohms direct; or 2 bridged mono, 8 ohms	
Connectors	(2) 5 mm screw lock captive screw connectors, 4 pole	
Load impedance	4 ohms (8 ohms if bridged) minimum	
Amplifier type	Class D	
Output power	100 watts rms per channel, 8 ohms, 1 kHz, <0.05% THD 200 watts rms per channel, 4 ohms, 1 kHz, <0.05% THD 400 watts rms (bridged mono), 8 ohms, 1 kHz, <0.05% THD	
Frequency response	20 Hz to 20 kHz, ±1 dB	
THD + Noise	0.05% @ 20 Hz-20 kHz, 8 ohms, at 3 dB below clipping	
S/N	100 dB, 20 Hz - 20 kHz, unweighted	
CONTROL/REMOTE — AMPLIFIER		
Control port	(1) 3.5 mm captive screw connector, 2 pole	
GENERAL		
Power	100 VAC to 240 VAC, 50-60 Hz, internal	
Typical	85 watts (1/8 power [pink noise] at 8 ohms)	
Quiescent	30 watts	
Standby	<1 watt (triggered by contact closure or after 1 hour with no signal)	
Cooling	Convection, no vents, with heat sinks on the sides	
Thermal dissipation		
Standby	<1 watt (3 BTU/hr)	
Idle	30 watts (102 BTU/hr)	
1/8 power (pink noise)	4 ohms (x4): 56 watts (190 BTU/hr) 8 ohms (x4): 35 watts (119 BTU/hr)	
Protection	Clip limiting, thermal, short circuit, DC output	
Mounting		
Rack mount	Yes, with included mounting brackets	
Enclosure dimensions	1.7" H x 17.4" W* x 12.0" D (1U high, full rack wide) (4.3 cm H x 44.2 cm W* x 30.5 cm D) *Width excludes rack ears. 19.0" (48.3 cm) W with rack ears.	
Product weight	8.0 lbs (3.6 kg)	
Regulatory compliance		
Safety	CE, c-UL, UL Meets UL 60065, IEC 60065, and BSEN 60065 for A/V equipment.	
EMI/EMC	CE, CISPR 22 Class B, C-tick, FCC Class B, ICES, VCCI Class B	
Environmental	Complies with the appropriate requirements of CEC, EU code of conduct, RoHS, WEEE	
Warranty	3 years parts and labor	
Model	Version Description	Part number
XPA 2004	Four Channel Power Amplifier	60-563-02

Specifications are subject to change without notice.



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