

XPA 1002

XPA 1002 Plus

TWO CHANNEL AMPLIFIERS
100 WATTS PER CHANNEL



XPA 1002



XPA 1002 Plus

The Extron XTRA™ Series XPA 1002 and XPA 1002 Plus are half rack 1U, convection cooled power amplifiers that deliver two channels of 100 watts rms. These professional grade amplifiers are ENERGY STAR® qualified and feature an Extron exclusive, highly efficient Class D amplifier design. The XPA 1002 and XPA 1002 Plus are ideal for amplification of voice or program audio content to stereo speakers, or two sets of ceiling speakers in a dual zone application.

- ▶ **XPA 1002:**
2 x 100 watts @ 4 ohms,
2 x 60 watts @ 8 ohms, or
1 x 200 watts @ 8 ohms (bridged)
- ▶ **XPA 1002 Plus:**
2 x 100 watts @ 4 or 8 ohms, or
1 x 200 watts @ 8 ohms (bridged)
- ▶ **ENERGY STAR® qualified amplifier**
- ▶ **Professional grade signal-to-noise and THD+N performance**
- ▶ **Extron Patented CDRS™ - Class D Ripple Suppression**
- ▶ **Convection cooled, fanless operation**
- ▶ **Ultra low inrush current - no need for power sequencing**
- ▶ **Power factor correction - removes harmonic content on AC line**
- ▶ **Rack-mountable 1U, half rack width enclosure**
- ▶ **UL 2043 plenum rated when used with optional Flexible Conduit Adapter Kit**



Extron Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **XTRA Series XPA 1002** is a half rack 1U, convection cooled power amplifier delivering two channels of 100 watts per channel. This professional grade amplifier features a 105 dB signal-to-noise ratio with 0.05% THD+N. The XPA 1002 is an ENERGY STAR qualified amplifier with an Extron exclusive, highly efficient, advanced Class D amplifier design. It also features patented CDRS - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifiers. The XPA 1002 is housed in a half rack width metal enclosure, conserving rack space and weighing only 2.5 lbs (1.1 kg). The Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- ▶ **ENERGY STAR qualified amplifier** – The XPA 1002 is an ENERGY STAR qualified amplifier and energy efficient product that conserves energy and reduces costs.
- ▶ **Professional grade signal-to-noise and THD+N performance** – The XPA 1002 delivers professional grade performance with 105 dB signal-to-noise ratio, and THD of less than 0.05%.
- ▶ **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.
- ▶ **Convection cooled, fanless operation**
- ▶ **Ultra low inrush current** – Allows multiple XTRA Series amplifiers to be powered simultaneously without overloading power circuits. This eliminates the need for power sequencing.
- ▶ **Power factor correction - removes harmonic content on AC line**
- ▶ **Rack-mountable 1U, half rack width enclosure**
- ▶ **UL 2043 plenum rated when used with optional Flexible Conduit Adapter Kit**
- ▶ **Auto power-down with fast power-up**
- ▶ **Rear panel recessed, detented level controls**
- ▶ **Automatic clip limiter** – Detects actual onset of clipping by comparing input and output waveforms.
- ▶ **Multiple protection circuits**
- ▶ **Front panel over-temperature LED**
- ▶ **Internal universal power supply**

SPECIFICATIONS

AUDIO		
Voltage gain		
XPA 1002	16x (24 dB)	
XPA 1002 Plus	23x (27dB)	
AUDIO INPUT		
Number/signal type	1 stereo or 2 mono, balanced/unbalanced	
Connectors	(1) 3.5 mm captive screw connector, 5 pole	
Nominal level	+4 dBu (1.23 Vrms), balanced	
Maximum level	+20 dBu (7.75 Vrms), balanced	
Input signal detection threshold	-40 dBu ±3 dB, balanced	
AUDIO OUTPUT		
Number/signal type	1 stereo, 4 or 8 ohm direct	
Connectors	(1) 5 mm screw lock captive screw connector, 4 pole	
Load impedance	4 ohm minimum	
Output power		
XPA 1002	60 watts rms per channel, 8 ohms, 1 kHz, <0.05% THD	
XPA 1002 Plus	100 watts rms per channel, 4 ohms, 1 kHz, <0.05% THD	
100 watts rms per channel, 8 ohms, 1 kHz, <0.05% THD		
100 watts rms per channel, 4 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	105 dB, 20 Hz - 20 kHz, unweighted	
GENERAL		
Power supply	Internal	
	Input: 100-240 VAC, 50-60 Hz, 0.5 A	
Power consumption		
Typical (1/8 power)		
XPA 1002	4 ohms (x2): 43 watts	
XPA 1002 Plus	8 ohms (x2): 30 watts	
	4 ohms (x2): 46 watts	
	8 ohms (x2): 45 watts	
Quiescent		
XPA 1002	10 watts	
XPA 1002 Plus	14 watts	
Standby	<1 watt (triggered by contact closure or after 25 minutes [± 5 minutes] with no signal)	
Cooling	Convection, no vents, with internal heat sinks	
Protection	Clip limiting, thermal, short circuit, DC output	
Enclosure dimensions	1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D)	
Product weight	2.5 lbs (1.1 kg)	
Regulatory compliance		
Safety	CCC, CE, c-UL, GS, KC Mark, PSE, S Mark, UL, BSMI UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.	
Environmental	Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE	
Model	Version Description	Part number
XPA 1002	Two Channel Amp - 100 Watts/Ch	60-849-01
XPA 1002 Plus	Two Channel Amp - 100 Watts/Ch	60-849-21

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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