

Specifications

XPA 1002

Audio

Voltage gain	16x (24 dB)
Stereo channel separation.....	>75 dB @ 1 kHz
CMRR.....	75 dB @ 1 kHz (typical)

Audio input

Number/signal type.....	1 stereo or 2 mono, balanced/unbalanced
Connectors.....	(1) 3.5 mm captive screw connector, 5 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	
XPA 1002	+4 dBu (1.23 Vrms)
Input signal detection threshold.....	-40 dBu \pm 3 dB, balanced

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio output

Number/signal type.....	1 stereo, 4 or 8 ohm direct
Connectors.....	(1) 5 mm screw lock captive screw connector, 4 pole

NOTE: These connectors accept wires of 22 AWG to 12 AWG.

Load impedance.....	4 ohms minimum
Amplifier type	Class D
Output power	60 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, \pm 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
Damping factor	>100 @ 8 ohms

Control/remote – amplifier

Control port	(1) 3.5 mm captive screw connector, 5 pole
Pin configurations	
DC volume control (analog).....	Pin 1 = +10 VDC, 50 mA (max.), pin 2 = volume/mute (variable voltage), pin 3 = GND
Volume control voltage range...	0 V (mute) to 10 V (maximum volume)
Standby power control (contact closure).....	Pin 4 = GND, pin 5 = standby

General

Power supply Internal
 Input: 100-240 VAC, 50-60 Hz, 0.5 A

Power consumption and thermal dissipation

		115 VAC, 60Hz				230 VAC, 50Hz			
		AC Line Current	AC Power Consumed	Thermal Dissipation		AC Line Current	AC Power Consumed	Thermal Dissipation	
Condition		A	W	W	BTU/hr	A	W	W	BTU/hr
Active (1/8 power), all channels driven	8Ω	0.3	29.9	14.9	51	0.2	29.9	14.9	51
	4Ω	0.4	41.1	16.1	55	0.2	41.1	16.1	55
Quiescent (idle)		0.1	10.1	10.1	34	0.1	9.8	9.8	33
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

Temperature/humidity Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
 Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Cooling Convection, no vents, with internal heat sinks

Protection Clip limiting, thermal, short circuit, DC output

Indication Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, short circuit

Mounting

Rack mount..... Yes, with optional 1U rack shelf

Enclosure type Metal

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)

Shipping weight 5 lbs (3 kg)

Vibration ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety BSMI, CCC, CE, c-UL, GS, KC Mark, PSE, S Mark, UL
 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.

EMI/EMC..... CE, CISPR 22 Class B, C-tick, FCC Class B, ICES, KC, VCCI Class B

Environmental..... Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE

Warranty 3 years parts and labor

Everlast power supply

warranty 7 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at www.extron.com.

081617-D5