Extron

Specifications

XPA Ultra Series 1004, 1004-70V, 1004-100V

Audio

Voltage gain
- XPA U 1004 ..... 23x (27 dB)
- XPA U 1004-70V..... 57x (35 dB)
- XPA U 1004-100V..... 81x (38 dB)

CMRR ..... 75 dB @ 1 kHz (typical)

Audio Input

Number/signal type ..... 4 balanced/unbalanced
Connectors..... (2) 3.5 mm captive screw connector, 5 pole
Impedance ..... >10k ohms balanced/unbalanced, DC coupled
Nominal level ..... +4 dBu, balanced
Maximum level ..... +20 dBu, balanced
Input sensitivity ..... +4 dBu
Input signal detection threshold..... -65 dBu ±3 dB, balanced

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Audio output

Number/signal type
- XPA U 1004 ..... 4 channels, 4 or 8 ohms
- XPA U 1004-70V..... 4 channels, 70V
- XPA U 1004-100V..... 4 channels, 100V

Connectors..... (2) 5 mm screw lock captive screw connector, 4-pole

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

Load impedance
- XPA U 1004 ..... 4 ohms minimum
- XPA U 1004-70V..... 50 ohms minimum
- XPA U 1004-100V..... 100 ohms minimum

Amplifier type ..... Class D
Output power
- XPA U 1004 ..... 100 Watts per channel, 8 ohms, 1 kHz, 0.1% THD
  100 Watts per channel, 4 ohms, 1 kHz, 0.1% THD
- XPA U 1004-70V..... 100 watts per channel, 70V, 1 kHz, 0.1% THD
- XPA U 1004-100V..... 100 watts per channel, 100V, 1 kHz, 0.2% THD

Frequency response ..... 20 Hz to 20 kHz, ±1 dB
THD + Noise ..... 0.1% @ 1 kHz, at 3 dB below clipping
S/N ..... 100 dB, 20 Hz - 20 kHz, unweighted
Damping factor
- XPA U 1004 ..... >100 @ 8 ohms
- XPA U 1004-70V..... >100 @ 50 ohms
- XPA U 1004-100V..... >100 @ 100 ohms

High pass filter
- XPA U 1004-70V..... 80 Hz, 12 dB per octave rolloff, selectable via captive screw
- XPA U 1004-100V..... 80 Hz, 12 dB per octave rolloff, selectable via captive screw

Control/Remote

Control port

XPA U 1004 ..... (1) 3.5 mm captive screw connector, 2 pole

XPA U 1004-70V..... (2) 3.5 mm captive screw connector, 2-pole

XPA U 1004-100V..... (2) 3.5 mm captive screw connector, 2-pole

Pin configurations

Standby power control (contact closure)..... Pin 1 = GND, pin 2 = Standby

High pass filter (contact closure)..... Pin 1 = GND, pin 2 = OFF (70V and 100V models only)

General

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

Power consumption and thermal dissipation

XPA U 1004		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	0.6	64.9	14.9	51	0.4	63.8	0.61	65
	4Ω	0.6	68.3	18.3	62	0.4	66.8	0.64	68
Quiescent (idle)		0.1	7.2	7.2	25	0.2	7.2	7.2	25
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

XPA U 1004-70V		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	70V	0.7	69.6	19.6	67	0.4	68.3	18.3	62
Quiescent (idle)		0.1	8.8	8.8	30	0.2	8.8	8.8	30
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

XPA U 1004-100V		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	100V	0.7	69.3	19.3	66	0.4	68.0	17.4	59
Quiescent (idle)		0.1	9.0	9.0	31	0.1	8.7	8.7	30
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

Ambient temperature/humidity

Storage..... −40 to +158°F (−40 to +70°C) / 10% to 90%, non-condensing

Operating	+32 to +122°F (0 to +50°C) / 10% to 90%, non-condensing
Cooling	Convection, no vents
Protection	Clip limiting, thermal, short circuit, DC output
Indication	Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or a short circuit. Over Temp LED indicates when the amplifier exceeds the recommended operating temperature for optimal unit longevity. Power LED indicates power state, DC output protection (see XPA Ultra Series User Guide for details).
Rack mount	Yes, with included mounting brackets or optional rack shelf
Enclosure	Metal
Enclosure dimensions	1.7" H x 8.7" W x 10.5" D (1U high, half rack wide) 43 mm H x 220 mm W x 267 mm D
Product weight	3.5 lbs (1.6 kg)
Regulatory compliance	CCC, CE, C-tick, c-UL, EN55032, EN55035, Ecofficient Level 3, FCC Class B, ICES, KC, UL, VCCI Class B. Meets UL 62368-1 , IEC 62368-1, and BSEN 62368-1 for Multimedia Equipment. RoHS, WEEE. UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release.
Product 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**.

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