

# Extron

## Specifications

### XPA U 1004 SB

#### Audio

|                                  |                         |
|----------------------------------|-------------------------|
| Voltage gain                     |                         |
| Stereo mode (8 ohm) .....        | 23x (27 dB)             |
| Stereo mode (4 ohm) .....        | 16x (24 dB)             |
| Bridged mono mode (16 ohm) ..... | 46x (33 dB)             |
| Bridged mono mode (8 ohm) ..     | 33x (30 dB)             |
| Bridged mono mode (70V) .....    | 57x (35 dB)             |
| Bridged mono mode (100V) ...     | 81x (38 dB)             |
| CMRR .....                       | 75 dB @ 1 kHz (typical) |

#### Audio Input

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| Number/signal type .....              | 4 balanced/unbalanced                      |
| Connectors.....                       | (2) 5-pin 3.5mm captive connector          |
| Impedance .....                       | >10kΩ ohms unbalanced/balanced, DC coupled |
| Nominal level .....                   | +4 dBu balanced                            |
| Maximum level .....                   | +20 dBu balanced                           |
| Input sensitivity .....               | +4 dBu (1.23 Vrms)                         |
| Input signal detection threshold .... | -65 dBu +/-3 dB, balanced                  |

#### Audio Output

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| Output number/signal type.....   | 4 channel, 8 ohms or 4 ohms; or 2 bridged mono, 8 ohms, 16 ohms, 70 V or 100 V |
| Connectors.....                  | (2) 4 pole 5mm screw lock captive screw connectors                             |
| Load impedance                   |                                                                                |
| Stereo mode (8 ohm) .....        | 8 ohms minimum                                                                 |
| Stereo mode (4 ohm) .....        | 4 ohms minimum                                                                 |
| Bridged mono mode (16 ohm) ..... | 16 ohms minimum                                                                |
| Bridged mono mode (8 ohm) ..     | 8 ohms minimum                                                                 |
| Bridged mono mode (70V) .....    | 25 ohms minimum                                                                |
| Bridged mono mode (100V) ...     | 50 ohms minimum                                                                |
| Amplifier type .....             | Class D                                                                        |
| Output power                     |                                                                                |
| Stereo mode .....                | 100 Watts per channel, 4 or 8 ohms, 1 kHz, 0.2% THD                            |
| Bridged mono modes               |                                                                                |
| Low impedance .....              | 200 watts per channel, 8 ohms or 16 ohms, 1 kHz, 0.2% THD                      |
| High impedance.....              | 200 watts per channel, 70V or 100V, 1 kHz, 0.2% THD                            |
| Frequency response .....         | 20 Hz to 20 kHz, +/- 1 dB, 8 ohms/ 70V / 100V                                  |
| THD + Noise .....                | 0.2% @ 1 kHz at 3 dB below clipping                                            |
| S/N .....                        | 100 dB, 20 Hz - 20 kHz, unweighted                                             |
| Damping factor.....              | >100 @ 8 ohms                                                                  |
| High pass filter                 |                                                                                |
| Bridged mono mode                |                                                                                |
| (70V or 100V).....               | 80 Hz, 12 dB per octave rolloff (switch selectable)                            |

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

# Specifications • XPA U 1004 SB (Continued)

## Control/remote

Control port ..... (1) 3.5mm captive screw connector, 5-pole(1) 3.5mm captive screw connector, 3-pole  
 Pin configuration  
     DC volume control (analog).... Pin 1 = +10 VDC, 50 mA (max.), Pin 2 = volume/mute (variable voltage),  
     Pin 3 = GND  
     Standby power control  
     (contact closure)..... Pin 4 = GND, Pin 5 = Standby

## General

Power..... 100 VAC to 240 VAC, 50-60 Hz, internal  
 Power Consumption and Thermal Dissipation

| XPA U 1004 SB                                    |                        | 115 VAC, 60 Hz  |                   |                     |        | 230 VAC, 50 Hz  |                   |                     |        |
|--------------------------------------------------|------------------------|-----------------|-------------------|---------------------|--------|-----------------|-------------------|---------------------|--------|
|                                                  |                        | 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<br>(1/8 power),<br>all channels<br>driven | Stereo<br>8 $\Omega$   | 0.6             | 66.7              | 16.7                | 57     | 0.4             | 65.4              | 15.4                | 53     |
|                                                  | Stereo<br>4 $\Omega$   | 0.7             | 71.6              | 21.6                | 74     | 0.4             | 70.3              | 20.3                | 69     |
|                                                  | Bridged<br>8 $\Omega$  | 0.7             | 69.5              | 19.5                | 67     | 0.4             | 67.8              | 17.8                | 61     |
|                                                  | Bridged<br>16 $\Omega$ | 0.6             | 65.3              | 15.3                | 52     | 0.4             | 64.3              | 14.3                | 49     |
|                                                  | Bridged<br>70 V        | 0.6             | 64.7              | 14.7                | 50     | 0.4             | 63.6              | 13.6                | 46     |
|                                                  | Bridged<br>100 V       | 0.6             | 63.3              | 13.3                | 45     | 0.4             | 62.2              | 12.2                | 42     |
| Quiescent (idle)                                 |                        | 0.1             | 9.2               | 9.2                 | 31     | 0.1             | 9.0               | 9.0                 | 31     |
| 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%, 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.  
                             Power LED indicates DC output protection  
 Rack mount..... Yes with included brackets and optional rack shelf  
 Enclosure ..... Metal (Aluminum)  
 Enclosure dimensions..... (1U high, half rack wide)  
                                     1.7" H x 8.7" W x 10.5" D  
                                     43mm H x 220mm W x 267 mm D  
 Product weight ..... 4.2 lbs (1.9 kg)  
 Regulatory compliance ..... CE, c-UL, UL, CCC, C-tick, EN55032, EN55035, FCC Class B, ICES, KC,  
                                     VCCI Class B, RoHS, WEEE  
                                     Meets UL 62368-1 and BSEN 62368-1.  
                                     UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release.  
                                     Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR  
                                     qualified amplifier).  
 Warranty ..... 3 years parts and labor  
 Everlast power supply warranty .... 7 years parts and labor

**NOTE:** Shipping weights and dimensions are available at [www.extron.com](http://www.extron.com).

6296-D5