

# Specifications — P/2 DA8/12 Series

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## Video

Gain.....	Unity
Bandwidth.....	350 MHz (-3 dB), fully loaded

## Video input

Number/signal type.....	1 VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video
Connectors .....	1 female 15-pin HD (optional Mac/VGA adapters are available)
Pin connections.....	ID bits on pins 4, 11, 12, and 15 are passed through to output 1. The pin 9 connection is passed through to output 1.
Nominal level .....	1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 Vp-p with no offset at unity gain
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 135 kHz
Vertical frequency.....	30 Hz to 150 Hz
Return loss.....	<-40 dB @ 5 MHz
Input coupling .....	DC

## Video output

Number/signal type.....	8 or 12 (depending on model) VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (follows input type)
Connectors .....	8 or 12 female 15-pin HD
Nominal level .....	1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0.3 V to 1.5 Vp-p (follows input)
Impedance.....	75 ohms
Return loss.....	<-40 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset

## Sync

Input type.....	RGBHV, RGBS, RGsB, RsGsBs; bi-level and tri-level sync
Output type.....	RGBHV, RGBS, RGsB, RsGsBs; bi-level and tri-level sync (follows input) Tri-level on Y, R-Y, B-Y channels (component video 720p, 1080i, 1080p) Bi-level on Y channel (for all other component video rates)
Input level .....	1.8 V to 5.0 Vp-p
Output level .....	TTL: 5.0 Vp-p, unterminated
Input impedance .....	510 ohms
Output impedance .....	50 ohms
Max. propagation delay .....	60 ns
Max. rise/fall time .....	2 ns
Polarity.....	Positive or negative (follows input)

## Audio — audio (A) models only

Gain.....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response .....	10 Hz to 20 kHz, ±0.2 dB
THD + Noise.....	0.03% @ 1 kHz at nominal level
S/N.....	>90 dB at maximum output (unweighted)
Crosstalk.....	<-45 dB @ 1 kHz
Stereo channel separation .....	>80 dB @ 1 kHz

# Specifications — P/2 DA8/12 Series, cont'd

## Audio input — audio (A) models only

- Number/signal type..... 1 stereo, unbalanced
- Connectors ..... (1) 3.5 mm mini audio jack (tip, ring, sleeve)
- Impedance..... >10 k ohms unbalanced, DC coupled
- Nominal level ..... -10 dBV (316 mVrms)
- Maximum level..... +16 dBu, (unbalanced) at 1% THD+N

**NOTE**  $0\text{ dBu} = 0.775\text{ Vrms}$ ,  $0\text{ dBV} = 1\text{ Vrms}$ ,  $0\text{ dBV} \approx 2\text{ dBu}$

## Audio output — audio (A) models only

- Number/signal type..... 8 or 12 (depending on model) stereo, balanced/unbalanced
- Connectors ..... (8 or 12) 3.5 mm captive screw connectors, 5 pole
- Impedance..... 50 ohms unbalanced, 100 ohms balanced
- Gain error .....  $\pm 0.1$  dB channel to channel
- Maximum level (Hi-Z) .....  $>+28$  dBu balanced,  $>+20$  dBV unbalanced at 1% THD+N
- Maximum level (600 ohm).....  $>+21$  dBm balanced,  $>+18$  dBm unbalanced at 1% THD+N

## Control/remote — distribution amplifier

- Contact closure mute control..... (2) 3.5 mm captive screw connectors, 4 pole, and  
(2) 3.5 mm captive screw connectors, 3 pole
- Contact closure pin configuration
  - 8-output models ..... A = mute all outputs, 1 = mute output 1, 2 = mute output 2,  
3 = mute output 3,... 8 = mute output 8
  - 12-output models ..... A = mute all outputs, 1 = mute output 1, 2 = mute output 2,  
3 = mute output 3,... 12 = mute output 12

## General

- Power ..... 100 VAC to 240 VAC, 50-60 Hz, 30 watts, internal
- 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
- Mounting
  - Rack mount ..... Yes, with included brackets
  - Furniture mount..... Yes, with optional under-desk mounting kit
- Enclosure type ..... Metal
- Enclosure dimensions..... 1.6" H x 17.4" W x 8.5" D (1U high, full rack wide)  
(4.1 cm H x 44.2 cm W x 21.6 cm D)  
(Depth excludes connectors.)
- Product weight ..... 6.0 lbs (2.7 kg)
- Shipping weight ..... 9 lbs (5 kg)
- Vibration..... ISTA 1A in carton (International Safe Transit Association)
- Regulatory compliance
  - Safety..... CE, c-UL, UL
  - EMI/EMC ..... CE, C-tick, FCC Class A, ICES, VCCI
- Warranty ..... 3 years parts and labor

**NOTE** All nominal levels are at  $\pm 10\%$ .

**NOTE** Specifications are subject to change without notice.

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