

Specifications — P/2 DA8/12 Series

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) 15-pin HD female (optional Mac/VGA adapters are available)
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 ± 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 (MBD 149, part #70-077-03)
 - Furniture mount..... Yes, with optional Under-Desk Mounting Kit (MBU 149, part #70-222-01)
- 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, CUL, UL
 - EMI/EMC CE, C-tick, FCC Class A, ICES, VCCI
- MTBF..... 30,000 hours
- Warranty 3 years parts and labor

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

NOTE Specifications are subject to change without notice.

7.6-111208-D5

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