

# Specifications — P/2 DA1, P/2 DA1 USB Line Drivers

## Video

Gain.....	0 dB, 0.6 dB, 1.2 dB, selectable: when input is 0.7 V <sub>p-p</sub> , output is 0.7 V, 0.75 V, 0.8 V <sub>p-p</sub> when switch is at normal, medium, and maximum positions, respectively
Bandwidth.....	300 MHz (-3 dB)

**NOTE** ID bits are passed through.

## Video input

Number/signal type.....	1 VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video
Connectors .....	(1) 15-pin male
Nominal level .....	1.0 V <sub>p-p</sub> for Y of component video 0.7 V <sub>p-p</sub> for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	Analog: 0.3 VDC to 1.5 VDC p-p with no offset at unity gain
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 135 kHz
Vertical frequency.....	30 Hz to 170 Hz

## Video output

Number/signal type.....	1 VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video
Connectors .....	(1) 15-pin HD female
Nominal level .....	1.0 V <sub>p-p</sub> for Y of component video 0.7 V <sub>p-p</sub> for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	Analog: 0.3 VDC to 1.5 VDC p-p with no offset at unity gain
Impedance.....	75 ohms
DC offset.....	±5 mV maximum with input at 0 offset

**NOTE** Output resolution may vary depending on whether the P/2 DA1 is attached to the computer at startup, and on the type of computer you are using.

## 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
Input level .....	2.0 V to 5.0 V <sub>p-p</sub>
Output level.....	TTL: 5 V <sub>p-p</sub>
Input impedance .....	510 ohms
Output impedance .....	75 ohms
Max. propagation delay .....	18.8 ns
Max. rise/fall time .....	4 ns
Polarity.....	Positive or negative

## General

Power	
P/2 DA1 .....	100 to 250 VAC, 4 watts, maximum, external, attached
P/2 DA1 USB.....	USB (5.0 VDC, 0.2 A)
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.....	No
Enclosure type .....	Plastic clamshell
Enclosure dimensions.....	0.6" H x 1.3" W x 3.1" D (1.4 cm H x 3.3 cm W x 7.9 cm D)
Product weight	
P/2 DA1 .....	0.5 lb (0.3 kg)
P/2 DA1 USB.....	0.1 lb (<0.1 kg)

# Specifications — P/2 DA1, P/2 DA1 USB Line Drivers, cont'd

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Shipping weight ..... 1 lb (1 kg)  
Vibration ..... ISTA 1A in carton (International Safe Transit Association)  
Regulatory compliance  
    Safety ..... CE, CUL, UL  
    EMI/EMC ..... CE  
MTBF ..... 30,000 hours  
Warranty ..... 3 years parts and labor

- NOTE** *All nominal levels are at ±10%.*
- NOTE** *Specifications are subject to change without notice.*

7.6-120208-D6

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