

Extron Electronics

INTERFACING, SWITCHING AND DISTRIBUTION



Extremely small enclosure

300 MHz (-3dB) RGB
video bandwidth

VGA/SVGA/XGA/SXGA
compatible

One input, one buffered
output

User-selectable
gain and peaking

P/2 DA1 - VGA/SXGA LINE DRIVER



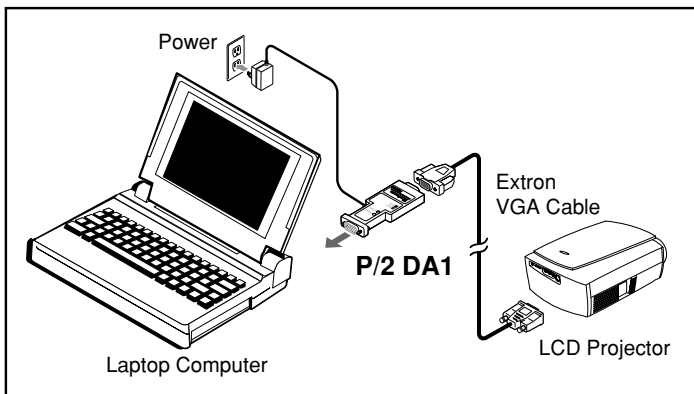
APPLICATION

Extron's P/2 DA1, "The Peaker," is an extremely small, one input, one buffered output VGA/SVGA/XGA/SXGA line driver. This DA drives a high resolution computer-video signal up to 250 feet through high-quality cable, such as Extron's VGA cable. The P/2 DA1 provides amplification and peaking, which allows the video signal to be run long distances and produces a brighter and sharper image than normally possible. This is especially useful in the case of laptops, which often output a low power video signal. The P/2 DA1 restores low level sync voltages found on many laptops (as low as 2 volts) to normal levels. This allows a laptop to function with display devices it normally wouldn't work with. The P/2 DA1 passes ID bits through to the display. The P/2 DA1 is housed in an adapter-sized enclosure, which allows it to be easily connected directly to a laptop.

FEATURES

- **Bandwidth**– 300 MHz (-3dB) RGB video bandwidth.
- **Wide compatibility**– Compatible with VGA, SVGA, XGA, and SXGA graphic cards, monitors, and projectors, as well as Macs with 15-pin HD output.
- **Input connector**– Features a 15-pin HD male connector for video input.
- **Output connector**– Features a 15-pin HD female connector for video output.
- **ID bits**– Laptop's ID bits are passed through to display.
- **Gain**– Three position user-selectable gain/peaking provided to maintain signal integrity during long cable runs.
- **Power supply**– A 110VAC, wall-mount power supply is attached to the USA/domestic version of the P/2 DA1. A 110-220VAC, desktop power supply is attached to the international version of the P/2 DA1.

APPLICATION DIAGRAM



SPECIFICATIONS

Video input	
Number/type	1 RGBHV, RGBS, RGsB, RsGsBs, SVGA/XGA/VGA
Connectors	1 15-pin HD male
Nominal level(s)	Analog — 0.5V to 1.2V p-p
Maximum level(s)	Analog — 2VDC with no offset
Impedance	75 ohms
Horizontal frequency	15 kHz to 135 kHz
Vertical frequency	30 Hz to 170 Hz
Maximum DC offset	200mV
Video throughput	
Gain	Adjustable: Unity, +50%, +100%
Bandwidth	300 MHz (-3dB)
	<i>Note: ID bits will be passed through</i>
Video output	
Number/type/format	1 RGBHV, RGBS, RGsB, RsGsBs, SVGA/XGA/VGA
Connectors	1 15-pin HD female
Nominal level	Unity: 1x input level
Impedance	75 ohms
DC offset	±5mV maximum
Sync	
Input type	RGBHV, RGBS, RGsB, RsGsBs
Output type	RGBHV, RGBS, RGsB, RsGsBs
Input level	2.0V to 5.0V p-p
Output level	TTL — 5V p-p
Input impedance	10k ohms
Output impedance	75 ohms
Max. propagation delay	18.8 nS
Max. rise/fall time	4 nS
Polarity	Positive or negative
General	
Power	
USA/domestic version	110VAC, 1 Watt
International version	100-240VAC, 1 Watt
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
Rack mount	No
Enclosure type	PC/ABS (plastic)
Enclosure dimensions56" H x 1.25" W x 3.00" D
	1.4 cm H x 3.2 cm W x 7.6 cm D
Shipping weight	1 lb (0.5 kg)
Vibration	NSTA 1A in carton (National Safe Transit Association)
Approvals	CE, UL, CUL
MTBF	30,000 hours
Warranty	2 years parts and labor
Part Numbers	
P/2 DA1, 110V (USA/domestic) ..	60-319-01
P/2 DA1, 220V (International)	60-319-02



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