

# P/2 DA1

## P/2 DA1 USB

VGA-QXGA LINE DRIVER, "THE PEAKER"

- Plastic clamshell enclosure
- User-selectable gain/peaking adjustment
- 300 MHz (-3dB) RGB video bandwidth
- VGA-QXGA compatible
- ID Bit routing
- Buffered output
- P/2 DA1 includes an autoswitching external power supply
- P/2 DA1 USB draws power through the USB port in a laptop



P/2 DA1



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The Extron P/2 DA1, also known as "The Peaker," is an extremely small, one input, one buffered output VGA-QXGA line driver. The P/2 DA1 drives a high resolution computer-video signal up to 250 feet (75 meters) through high quality cable, such as Extron VGA cable.



# Extron® Electronics

[www.extron.com](http://www.extron.com)

## DESCRIPTION

The Extron P/2 DA1, also known as a "The Peaker," is an extremely small, one input, one buffered output VGA-QXGA line driver. The P/2 DA1 drives a high resolution computer-video signal up to 250 feet (75 meters) through high quality cable, such as Extron VGA cable. The P/2 DA1 provides amplification and peaking, allowing the video signal to be run long distances to produce a brighter and sharper image. This is especially useful with laptops, which often output a low power video signal.

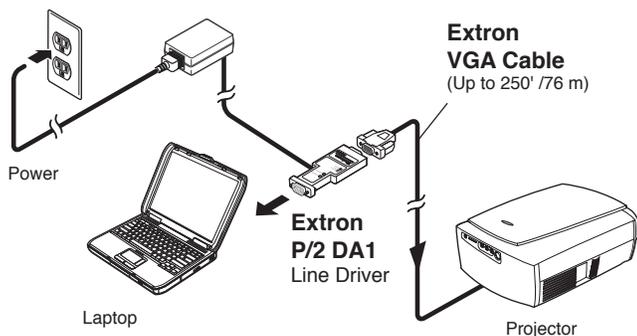
The P/2 DA1 also restores the low level sync voltages found on many laptops to normal TTL levels. This sync restoration prepares the signals for long cable runs and offers enhanced compatibility with a wide range of computers, display devices, and cable types. The display's ID bits are passed through to the laptop.

The P/2 DA1 is housed in an adapter-sized enclosure, which allows for direct connection to a laptop. Two versions are available: one with an attached 100 to 240 VAC power supply, and a USB version which is powered by a USB port in a laptop.

## FEATURES

- **Bandwidth** – 300 MHz (-3 dB) RGB video bandwidth, fully loaded, ensures signal integrity.
- **Compatibility** – Compatible with VGA-QXGA resolution graphic cards, monitors, and projectors, as well as Macintosh® computers with 15-pin HD outputs.
- **ID Bit routing** – ID bits are routed through the monitor output.
- **Buffered output** – Buffered output maintains the original signal integrity and eliminate noise interference.
- **Power supply** – The P/2 DA1 uses the included 110 V external power supply. The P/2 DA1 USB is powered via USB.

## APPLICATION DIAGRAM



## SPECIFICATIONS

### VIDEO

Gain .....	0 dB, 0.6 dB, 1.2 dB, selectable
Bandwidth .....	300 MHz (-3 dB)

### VIDEO INPUT

Number/signal type .....	1 VGA-QXGA RGBHV, RGBS, RGSB, RsGsBs
Connectors .....	(1) 15-pin male
Nominal level.....	0.7 Vp-p for RGB
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
<b>NOTE:</b> ID bits will be passed through.	

### VIDEO OUTPUT

Number/signal type .....	1 VGA-QXGA RGBHV, RGBS, RGSB, RsGsBs
Connectors .....	(1) 15-pin HD female
Nominal level.....	0.7 Vp-p for RGB
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
<b>NOTE:</b> 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
Output type .....	RGBHV, RGBS, RGSB, RsGsBs
Input level .....	2.0 V to 5.0 Vp-p
Output level .....	TTL: 5 Vp-p
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

<b>Power</b>	
P/2 DA1 .....	100 to 240 VAC, 4 watts, maximum, external, attached
P/2 DA1 USB .....	USB (5.0 VDC, 0.2 A)
Rack mount .....	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

<b>Product weight</b>	
P/2 DA1 .....	0.5 lb (0.3 kg)
P/2 DA1 USB .....	0.1 lb (<0.1 kg)
Shipping weight .....	1 lb (1 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)

Listings .....	UL, CUL
Compliances .....	CE
MTBF .....	30,000 hours
Warranty .....	3 years parts and labor
<b>NOTE:</b> All nominal levels are at ±10%.	
<b>NOTE:</b> Specifications are subject to change without notice.	

Model	Version Description	Part Number
P/2 DA1	World power .....	60-319-02
P/2 DA1 USB	USB power .....	60-319-03

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