

User's Guide



P/2 DA1 VGA Line Driver

68-480-01 Rev. C
07 06

Installation

The Extron P/2 DA1 is a one input, one output VGA line driver. It boosts the video signal between a laptop or desktop computer (input device) and a monitor or large screen projector (output device).

Features

- The P/2 DA1 accepts and outputs VGA, XGA, SXGA, RsGsBs, RGSB, RGBS, and RGBHV signals.
- The gain/peaking switch increases video signal voltages to compensate for signal degradation caused by long cables.

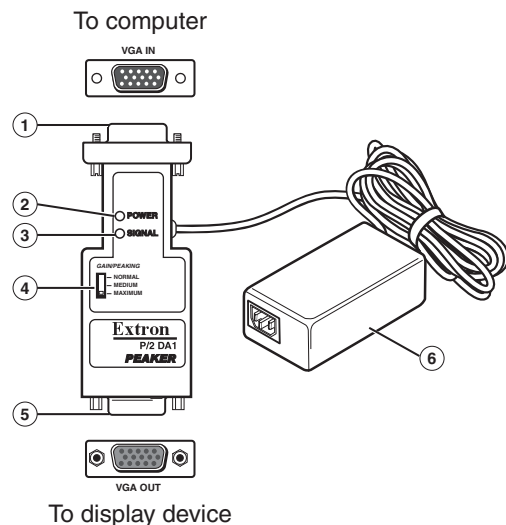
Installation

To install the P/2 DA1, do the following:

1. Turn off power to the input and output devices and unplug their power cords.
2. Connect the computer to the 15-pin HD male input connector (see ① in the “Operation” illustration below).
3. Connect the output device to the 15-pin HD female output connector (see ⑤ in the “Operation” illustration below).
4. Reattach power cords, and apply power to the P/2 DA1 and to the input and output devices.

NOTE Many laptop computers have an external video port, but they require special commands to output the video to that connector. Also, many laptops’ screens shut off after the port is activated. See the computer’s user’s guide for details, or contact Extron for a list of laptop keyboard commands.

Operation



- ① 15-pin HD input connector
- ② Power LED — Lights to indicate that the P/2 DA1 is on.
- ③ Signal LED — Lights to indicate that an input signal is being received.
- ④ Gain/peaking switch — Compensates for cable resistance and capacitance.

Normal — Output is the same level as input.

Medium — 50% of the total gain is applied. Peaking is applied.

Maximum — 100% of the total gain is applied. Peaking is applied.

NOTE If the signal cable between the P/2 DA1 and the output device is shorter than approximately 125 feet, and the gain switch is set to Medium or Maximum, the image may be overcompensated. If the edges of the image seem to exceed their boundaries, or if thin lines and sharp edges look thick and fuzzy, try changing the gain/peaking setting.

- ⑤ 15-pin HD output connector
- ⑥ Power supply — 110–250 V desktop for international use.

Specifications

Video

Gain	0 dB, 0.6 dB, 1.2 dB, selectable: when input is 0.7 Vp-p, output is 0.7 V, 0.75 V, 0.8 Vp-p when switch is at normal, medium, and maximum positions, respectively
Bandwidth	300 MHz (-3 dB) Note: ID bits will be passed through.

Video input

Number/signal type	1 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs
Connectors	(1) 15-pin male
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels	Analogue: 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-UXGA 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

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/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

Power	100 to 250 VAC, 4 watts, maximum, external, attached
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
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
Product weight	0.5 lb (0.3 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

Part Number

P/2 DA1, 100 to 250V	60-319-02
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NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*



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