

Extron Electronics

INTERFACING, SWITCHING AND DISTRIBUTION



P/2 DA1

P/2 DA2 PLUS

P/2 DA2 LC

P/2 DA2 MT

P/2 DA2 WM

P/2 DA4 PLUS

P/2 DA6 PLUS

SW2 VGA DA2 A

SW2 VGA DA2 AF

Mac DA2 PLUS

13W3 DA2

VGA, MAC, & 13W3 DISTRIBUTION AMPLIFIERS



P/2 DA1



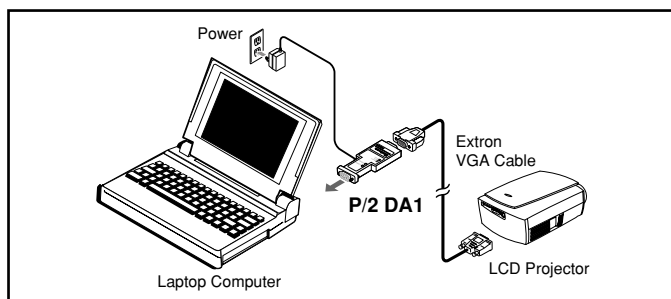
P/2 DA1

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. This 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 also restores low level sync voltages found on many laptops (as low as two volts) to normal TTL levels. This allows a laptop to function with display devices and cable types it normally wouldn't work with. The laptop's ID bits are passed 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.
- **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 connectors** – Features a 15-pin HD female connector for buffered video output.
- **ID bits** – Laptop's ID bits are passed through to the display.
- **Gain and peaking** – User-selectable gain and peaking help 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, and a 110-220VAC, desktop power supply is attached to the world version of the P/2 DA1.
- **Part numbers**
60-319-01 (USA/domestic)
60-319-02 (World)

APPLICATION DIAGRAM



P/2 DA2 PLUS



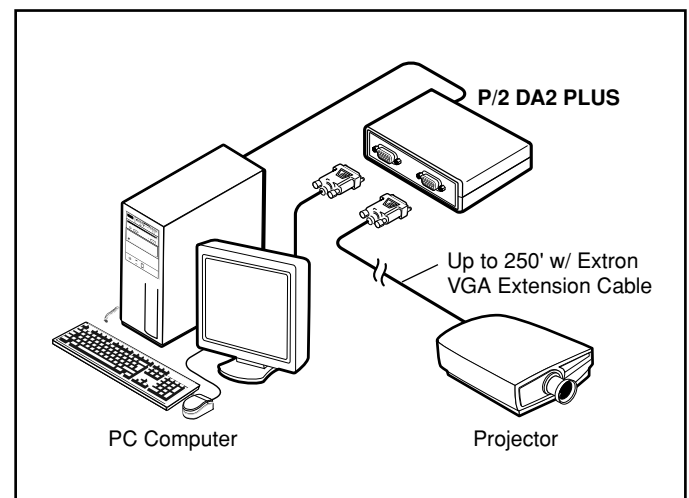
P/2 DA2 PLUS

Extron's P/2 DA2 PLUS is a one input, two buffered output, high resolution VGA/SXGA distribution amplifier. This DA drives a high resolution computer-video signal up to 250 feet through high-quality cable, such as Extron's VGA cable.

FEATURES

- **Bandwidth** – 270 MHz (-3dB) RGB video bandwidth.
- **Compatibility** – Compatible with all modes/resolutions of VGA, SVGA, XGA, and SXGA graphic cards, monitors, and projectors.
- **Input connector** – Attached 4' 15-pin HD male cable is included for reliable connection of video signals.
- **Output connectors** – Features 15-pin HD female connectors for buffered video output and buffered local monitor output.
- **ID bits** – ID bits are routed to local monitor output.
- **Power supply** – A 110VAC, wall-mount power supply is attached to the USA/domestic version of the P/2 DA2 PLUS, and a 110-220VAC, desktop power supply is attached to the world version of the P/2 DA2 PLUS.
- **Part numbers**
60-046-01 (USA/domestic)
60-046-02 (World)

APPLICATION DIAGRAM



P/2 DA2 LC



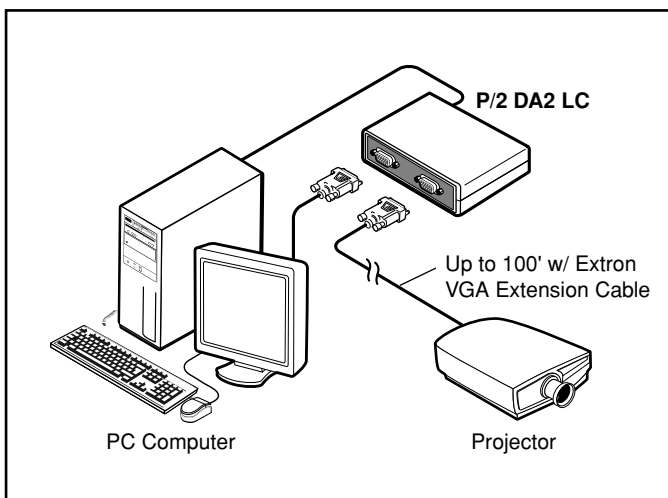
P/2 DA2 LC

Extron's P/2 DA2 LC is a one input, two output, medium resolution VGA/XGA distribution amplifier. This cost-effective DA drives a computer-video signal up to 100 feet through high-quality cable, such as Extron's VGA cable.

FEATURES

- **Bandwidth** – 150 MHz (-3dB) RGB video bandwidth.
- **Compatibility** – Compatible with all modes/resolutions of VGA and XGA graphic cards, monitors, and projectors.
- **Input connector** – Attached 1' 15-pin HD male cable is included for reliable connection of video signals.
- **Output connectors** – Features 15-pin HD female connectors for buffered video output and non-buffered local monitor output.
- **ID bits** – ID bits are routed to local monitor output.
- **Power supply** – A 110VAC, wall-mount power supply is attached to the USA/domestic version of the P/2 DA2 LC, and a 110-220VAC, desktop power supply is attached to the world version of the P/2 DA2 LC.
- **Part numbers**
60-160-01 (USA/domestic)
60-160-02 (World)

APPLICATION DIAGRAM



P/2 DA2 MT



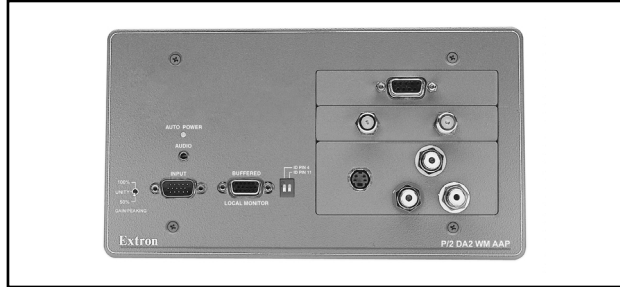
P/2 DA2 MT

Extron's P/2 DA2 MT is a mountable, one input, two buffered output, high resolution VGA/SXGA distribution amplifier with audio. This DA drives a high resolution computer-video signal up to 250 feet through high-quality cable, such as Extron's VGA cable. For convenient access, the P/2 DA2 MT may be mounted under a desk or through a desk (through-desk mounting brackets are optional).

FEATURES

- **Bandwidth** – 300 MHz (-3dB) RGB video bandwidth.
- **Compatibility** – Compatible with all modes/resolutions of VGA, SVGA, XGA, and SXGA graphic cards, monitors, and projectors. Compatible with Mac sources and Mac-compatible displays with optional Mac/VGA adapter.
- **Input connector** – Features a 15-pin HD female connector for video input.
- **Output connectors** – Features 15-pin HD female connectors for buffered video output and buffered local monitor output.
- **Audio connectors** – Features a 3.5 mm female audio jack for audio input and a 3.5 mm captive screw connector for balanced or unbalanced audio output.
- **Audio interfacing** – Unbalanced audio may be converted to balanced audio. Balanced audio eliminates noise usually associated with unbalanced audio when distributed over long cable runs.
- **ID bits** – ID bits are normally routed to local monitor output. ID bit termination is dip switch selectable.
- **Level and peaking (display output only)** – Level control adjusts brightness level of image. Peaking control adjusts sharpness level of image.
- **Mountable** – Includes detachable brackets for under-desk mounting. Optional brackets available for through-desk mounting.
- **Power supply** – Includes an external 9VDC desktop power supply (detachable).
- **Part number:** 60-295-01

P/2 DA2 WM



P/2 DA2 WM AAP (w/ Architectural Adapter Plates)

Extron's P/2 DA2 WM is a wall-mountable, one input, two buffered output, high resolution VGA/SXGA distribution amplifier with audio. 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 DA2 WM is enclosed in a two-gang box with a face plate (available in grey, black, or white). It fits flush into a wall, podium, or table and blends into the environment. The P/2 DA2 WM is available in an EC model compatible with European channel mounting systems. Both the P/2 DA2 WM and the P/2 DA2 EC are available with openings for optional Architectural Adapter Plates to provide additional signal pass-through connectors.

FEATURES

The P/2 DA2 WM has the same features as the P/2 DA2 MT except for the following differences:

- **Bandwidth** – 270 MHz (-3dB) RGB video bandwidth.
- **Input connector** – Features a 15-pin HD male connector for input. The P/2 DA2 WM does not include an input cable.
- **Wall-mountable** – Self-contained enclosure allows easy installation into existing walls.
- **EC model** – EC version with white face plate available for European cable channel mounting systems.
- **Architectural Adapter Plate openings** – The P/2 DA2 WM and P/2 DA2 EC are available with openings for Architectural Adapter Plates (AAPs). Over 100 AAPs feature various video and audio signal pass-through connectors.
- **Power** – Accepts 12-24 AC/DC through captive screw connector. Power supply sold separately.

PART NUMBERS

P/2 DA2 WM (grey)	60-296-01
P/2 DA2 WM (black)	60-296-02
P/2 DA2 WM (white)	60-296-03
P/2 DA2 EC (white)	60-296-10
P/2 DA2 WM AAP (grey)	60-311-01
P/2 DA2 WM AAP (black)	60-311-02
P/2 DA2 WM AAP (white)	60-311-03
P/2 DA2 EC AAP (white)	60-311-10

P/2 DA4 PLUS P/2 DA6 PLUS



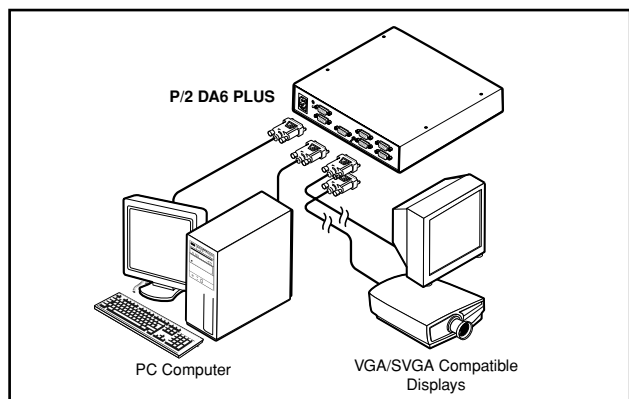
P/2 DA6 PLUS Shown

Extron's P/2 DA4 PLUS and P/2 DA6 PLUS are rack-mountable, high resolution VGA/SXGA distribution amplifiers. The P/2 DA4 PLUS provides four buffered outputs, and the P/2 DA6 PLUS provides six buffered outputs. Each DA drives a high resolution computer-video signal up to 250 feet through high-quality cable, such as Extron's VGA cable.

FEATURES

- **Bandwidth** – 300 MHz (-3dB) RGB video bandwidth.
- **Compatibility** – Compatible with all modes/resolutions of VGA, SVGA, XGA, and SXGA graphic cards, monitors, and projectors. Compatible with Mac sources and Mac-compatible displays with optional Mac/VGA adapter.
- **Video connectors** – Features 15-pin HD female connectors for video input, buffered video outputs, and buffered local monitor output.
- **ID bits** – ID bits are routed to local monitor output.
- **Boost** – Boost switch helps maintain signal integrity for long cable runs.
- **Rack-mountable** – Housed in a 1U high, 1/2 rack width enclosure.
- **Power supply** – Includes a worldwide, 100-240VAC, 50/60 Hz, auto-switchable internal power supply.
- **Part numbers**
 P/2 DA4 PLUS 60-246-01
 P/2 DA6 PLUS 60-245-01

APPLICATION DIAGRAM



SW2 VGA DA2 A SW2 VGA DA2 AF



SW2 VGA DA2 A Shown

Combination Switcher and Distribution Amplifier—

Extron's SW2 VGA DA2 A and SW2 VGA DA2 AF are two input, dual buffered output, mountable combination switchers and distribution amplifiers. Each allows the user to select between two HD-15 sources and output the selected source on two HD-15 outputs. For audio, the SW2 VGA DA2 A or SW2 VGA DA2 AF switches two stereo audio sources to one stereo audio output. Each is ideal for a boardroom or other small-scale installation that requires two computers to share a local monitor and projector. Each output drives a high resolution computer-video signal up to 250 feet through high-quality cable, such as Extron's VGA cable. The difference between the SW2 VGA DA2 A and SW2 VGA DA2 AF is the placement of the input connectors. For convenient front panel connection to a computer, the SW2 VGA DA2 AF offers a HD-15 connector and a 3.5 mm female audio jack for one input on the front panel, and all other connectors are on the back. The SW2 VGA DA2 A offers all connectors on the back panel.

FEATURES

- **Bandwidth** – 250 MHz (-3dB) RGB video bandwidth.
- **Compatibility** – Compatible with VGA, SVGA, XGA, and SXGA sources, monitors, and projectors. Compatible with Mac sources and Mac-compatible displays with optional Mac/VGA adapter.
- **Video connectors** – Two inputs and two independently buffered outputs using 15-pin HD female connectors.
- **Audio connectors** – Two unbalanced audio inputs using 3.5 mm female audio jacks and one balanced or unbalanced audio output using 3.5 mm captive screw connector.
- **Auto-switchable** – Auto-switching and manual modes available.
- **Control** – Tactile switch buttons with LEDs and contact closure control.
- **Power** – Accepts 12 VDC through jack or captive screw connector. Includes external power supply.
- **Mountable** – Includes detachable brackets for under-desk mounting. Optional mounting brackets available for through-desk mounting. Rack-mount/through-desk mounting
- **Part numbers**
 - SW2 VGA DA2 A 60-297-01
 - SW2 VGA DA2 AF 60-297-02
 - Mounting Kit..... 70-077-03

MAC DA2 PLUS



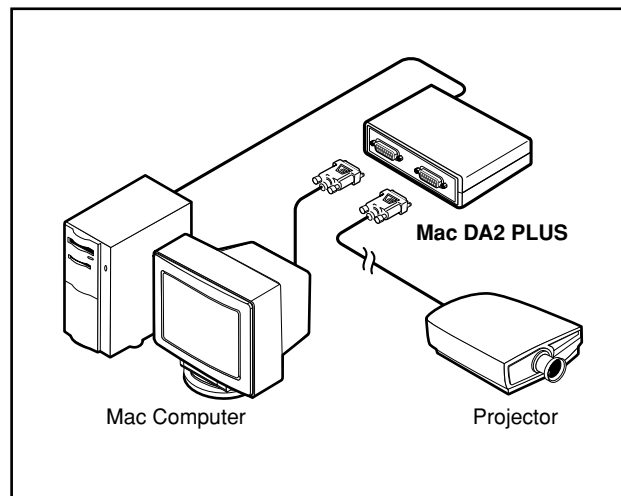
Mac DA2 PLUS

Extron's Mac DA2 PLUS is a one input, two buffered output, high resolution Mac distribution amplifier. This DA drives a high resolution Mac computer-video signal up to 200 feet through high-quality cable, such as Extron's Mac/Quadra cable. For Mac boot-up, with or without a monitor, the Mac DA2 PLUS includes a sense line (ID bit) rotary switch with twelve resolutions available.

FEATURES

- **Bandwidth** – 270 MHz (-3dB) RGB video bandwidth.
- **Compatibility** – Compatible with all modes/resolutions of Mac, Quadra, Performa, Centris, Radius, E-Machines, PowerMac, and PowerBook sources and Mac-compatible displays.
- **Input connector** – Attached 4' 15-pin D male cable is included for reliable connection of video signals.
- **Output connectors** – Features 15-pin D female connectors for buffered video output and buffered local monitor output.
- **ID bits** – Sense line termination available at twelve different resolutions for Mac boot-up, with or without monitor.
- **Power supply** – Includes an external 9VDC desktop power supply.
- **Part number:** 60-081-02

APPLICATION DIAGRAM



13W3 DA2



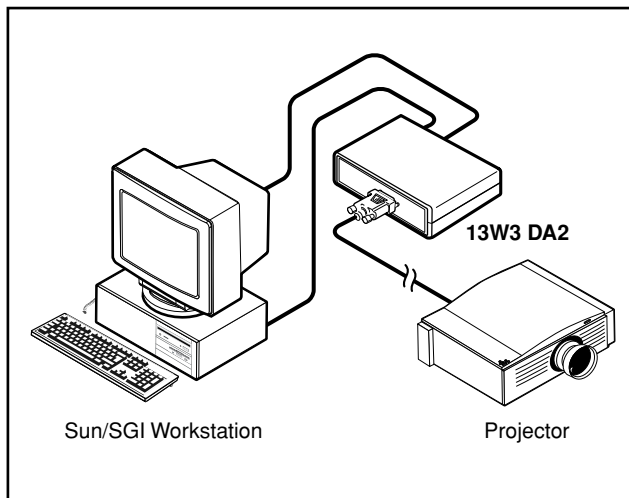
13W3 DA2

Extron's 13W3 DA2 is a one input, two buffered output, high resolution 13W3 distribution amplifier. This DA drives a high resolution computer-video signal up to 100 feet through high-quality cable, such as Extron's 13W3 cable. The 13W3 DA2 maintains signal integrity during long cable runs.

FEATURES

- **Bandwidth** – 300 MHz (-3dB) RGB video bandwidth.
- **Compatibility** – Compatible with Sun and SGI workstations and workstation-compatible displays.
- **Input connector** – Attached 4' 13W3 male cable is included for reliable connection of video signals.
- **Output connectors** – Features 13W3 female connectors for buffered video output and buffered local monitor output.
- **ID bits** – ID bits are routed to local monitor output.
- **Power supply** – Includes an external 9VDC desktop power supply.
- **Part number:** 60-128-02

APPLICATION DIAGRAM



SPECIFICATIONS

Video Input

Number/signal type

- SW 2 VGA DA2 A/AF 2 VGA, SVGA, XGA, SXGA
- P/2 DA2 LC 1 VGA, SVGA
- All others 1 VGA, SVGA, XGA, SXGA

Connectors

- P/2 DA2 WM 1 15-pin HD male
- Mac DA2 PLUS 1 15-pin D female
- 13W3 DA2 1 13W3 female
- SW2 VGA DA2 A/AF 2 15-pin HD female
- All others 15-pin HD female

Nominal levels Analog 0.5V to 1.2V p-p

Maximum levels Analog 2VDC with no offset

Impedance 75 ohms

Horizontal frequency 15 kHz to 135 kHz

Vertical frequency 30 Hz to 170 Hz

(Except P2 DA2 LC: 15kHz to 45kHz)
(Except P2 DA2 LC: 30Hz to 120Hz)

Video Throughput

Gain

- P/2 DA 4 & 6 PLUS 0.7V or 1.0V, switchable
- P/2 DA1 0.7V, 0.8V, 0.9V
- P/2 DA2 MT 0.7V, 0.8V
- P/2 DA2 WM 0.7V, 0.8V

Bandwidth

- P/2 DA2 LC 150 MHz (-3dB)
- P/2 DA2 WM 270 MHz (-3dB)
- P/2 DA2 PLUS 270 MHz (-3dB)
- Mac DA2 PLUS 270 MHz (-3dB)
- SW 2 VGA DA2 A/AF 250 MHz (-3dB)
- All others 300 MHz (-3dB)

Video Output

Number/signal type

- P/2 DA1 1 VGA, SVGA, XGA, SXGA
- P/2 DA2 LC 2 VGA, SVGA, XGA
- P/2 DA4 & 6 PLUS 4 & 6 (respectively) VGA, SVGA, XGA, SXGA
- All others 2 VGA, SVGA, XGA, SXGA

Connectors

- P/2 DA1 1 15-pin HD male
- Mac DA2 PLUS 2 15-pin D female
- 13W3 DA2 2 13W3 female
- P/2 DA4 & 6 PLUS 4 & 6 respectively 15-pin HD
- All others 2 15-pin HD female

Nominal level Unity, 1x input level

Impedance 75 ohms

Audio Input

Number/signal type

- P/2 DA2 WM and P/2 DA2 MT 1 stereo, unbalanced
- SW 2 VGA DA2 A/AF 2 stereo, unbalanced

Connectors

- P/2 DA2 WM and P/2 DA2 MT 1 3.5 mm stereo jack
- SW2 VGA DA2 A/AF 2 3.5 mm stereo jacks

Audio Throughput

Gain

- P/2 DA2 MT, P/2 DA2 WM, SW 2 VGA DA2 A/AF Unbalanced 0 dB, balanced +6 dB

Frequency response

- P/2 DA2 MT, P/2 DA2 WM, SW 2 VGA DA2 A/AF 0 Hz to 20 kHz

Audio Output

Number/signal type

- P/2 DA2 MT, P/2 DA2 WM, SW 2 VGA DA2 A/AF 1 stereo balanced or unbalanced

Connectors

- P/2 DA2 MT, P/2 DA2 WM, SW 2 VGA DA2 A/AF 1 3.5 mm captive screw, 5 pole

Impedance 50 ohms, unbalanced; 100 ohms, balanced



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