Our new enhanced CDA-2EQG and CDA-2EQGA high resolution 1 X 2 Distribution Amplifiers are designed to satisfy typical applications requiring a local monitor and a remote display device with a long cable run.

The CDA-2EQG/A's local monitor output is fully buffered by an independent amplifier stage to eliminate interaction with the remote output.

The remote output is buffered and equalized to maintain excellent signal integrity with even the highest video resolutions.

This means that the signal that you feed into the CDA-2EQG/A will arrive at the far end of the cable with an almost immeasurable amount of loss.

Cable runs of 175' are possible using standard mini hi-res coax cable.

The remote output sync circuitry provides a termination option switch to help overcome display jitter and image loss associated with improper sync termination. Image jitter and loss problems are infrequent, but unpredictable and frustrating issues that result from differences in VGA cable construction and display input termination.

To ensure installed system compatibility, the CDA2EQG/A can obtain EDID display information data from either the local (default setting) or remote monitor by setting the internal jumpers.

The CDA2EQG/A models employ a “green” automatic power down feature that reduces standby power consumption to less than 50 mW, a reduction of over 95%. This mode can be disabled in applications where a horizontal sync signal is not present to support this feature.

CDA-2EQGA incorporates a mini stereo input jack on the front and a 5 position pluggable captive screw terminal on the back for balanced stereo audio output. An active audio balancing circuit ensures long, noise free stereo audio cable runs from the point of installation to the house sound system.

The FSR CDA-2EQG/A is ideal for laptop or desktop presentations such as PowerPoint® that require the secondary audio and video feeds to run longer distances. It would be a versatile complement to the designers/integrators palette.

**FEATURES**

- Ultra High Bandwidth
- Flat Frequency Response
- Local Monitor Output
- Monitors EDID Data Selector
- Integrated Line Driver with Cable EQ
- Includes Power Supply and All Mounting Hardware

**APPLICATIONS**

- Conference / Board Rooms
- Classrooms
- Courtrooms
- Staging and Rental
- House of Worship

**CDA-2EQG/A TYPICAL APPLICATIONS**

Specifications are subject to change without notice.

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Graph A shows the response curves of a 150’ foot section of FSR mini hi-res cable with and without the CDA-2EQG being driven by a full 0.7 Vp-p signal.

Notice that by itself, the cable’s bandwidth is only 14 MHz, but when used with the CDA-2EQG, the bandwidth is restored to 168 MHz.

Graph B shows the response of a 150’ section of FSR mini hi-res cable with and without the CDA-2EQG, with a half level 0.350 Vp-p signal.

Notice that the CDA-2EQG maintains it’s exceptionally flat response characteristics, even with a low level signal.

Again, notice that the cable’s -3 dB bandwidth is only 14 MHz, but it is restored to 311 MHz when driven by the CDA-2EQG.

### TECHNICAL SPECIFICATIONS

#### VIDEO INPUT

- **Number/Type:** 1 RGB-HV
- **Connectors:** 1 female HD-15
- **Level (nominal):** Analog 0.7 Vp-p
- **Level (maximum):** 2 Vp-p
- **Impedance:** 75 ohms
- **Max Resolution:** Up to QXGA (2048 x 1536 @ 60 Hz)

#### EQUALIZED VIDEO OUTPUT

**Video**

- **Number/Type:** 1 RGB-HV
- **Connectors:** 1 female HD-15
- **Bandwidth:** The performance data is based on the CDA-2EQGA/CDA-2EQG using FSR mini Hi-Res cable with a full amplitude (0.7 Vp-p) signal applied.
  - 50’ cable: 310 MHz (-3 dB); 0 to 200 MHz (±0.5 dB)
  - 100’ cable: 225 MHz (-3 dB); 0 to 140 MHz (±0.5 dB)
  - 150’ cable: 168 MHz (-3 dB); 0 to 105 MHz (±0.5 dB)
- **EQ settings are adjustable via DIP switch**

<table>
<thead>
<tr>
<th>GAIN</th>
<th>Dip Switch Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI = 125’ to 175’</td>
<td>3 DN</td>
</tr>
<tr>
<td>MED = 60’ to 125’</td>
<td>4 UP DN</td>
</tr>
<tr>
<td>LOW = 0’ to 60’</td>
<td>3 UP</td>
</tr>
</tbody>
</table>

**Sync**

- **Input level:** 2.0 Vp-p to 5.0 Vp-p
- **Output level:** 4.0 Vp-p into Hi-Z, 2.0 Vp-p into 75 ohms
- **Input Impedance:** 511 ohms
- **Output impedance selectable:** Lo-Z (DIP SW 2 DN) or Hi-Z (DIP SW 2 UP)
- **Polarity:** Positive or negative
- **Horizontal frequency:** 15 kHz to 200 kHz
- **Vertical frequency:** 30 Hz to 150 Hz

#### LOCAL VIDEO OUTPUT

**Video**

- **Number/type:** 1 RGB-HV
- **Connectors:** 1 female HD-15
- **Bandwidth:** 300 MHz @ -3 dB
- **Gain:** Unity (buffered)
- **Impedance:** 75 ohms

**Sync**

- **Input level:** 2.0 Vp-p to 5.0 Vp-p
- **Output level:** 4.0 Vp-p into Hi-Z, 2.0 Vp-p into 75 ohms
- **Input Impedance:** 511 ohms
- **Output impedance:** 75 ohms
- **Polarity:** Positive or negative
- **Horizontal frequency:** 15 kHz to 200 kHz
- **Vertical frequency:** 30 Hz to 150 Hz

#### AUDIO

**Frequency response:** 20 Hz to 20 kHz (±0.05 dB)
- **THD + N:** <0.05% @ 1 kHz; +12 dBV out
- **S/N:** >100 dB @ rated output (unweighted)
- **Stereo separation:** ~82 dB @ 1 kHz

**AUDIO INPUT**

- **Number/type:** 1 Stereo unbalanced
- **Connectors:** 3.5mm stereo plug
- **Input impedance:** 10K ohms unbalanced
- **Maximum level with a 600 ohm load:** +4 dBV; balanced load
- **Maximum level with a Hi-Z load:** +6 dBV; balanced
- **Maximum level with a 600 ohm load:** +10 dBV; balanced
- **Maximum level with a Hi-Z load:** +12 dBV; balanced
- **Maximum level with a 600 ohm load:** +12 dBV; unbalanced
- **Maximum level with a Hi-Z load:** +6 dBV; unbalanced

**AUDIO OUTPUT**

- **Number/type:** 1 balanced Stereo
  - (may be used in unbalanced configuration)
- **Connector:** 5 position pluggable screw terminal
- **Impedance:** 100 ohms balanced/50 ohms unbalanced
- **Gain:** +6 dB balanced or unbalanced
- **Maximum level with a 600 ohms load:** +10 dBV; balanced
- **Maximum level with a Hi-Z load:** +12 dBV; balanced
- **Maximum level with a 600 ohms load:** +12 dBV; unbalanced
- **Maximum level with a Hi-Z load:** +6 dBV; unbalanced

**Note:** Balanced audio output performance, unless otherwise noted

#### POWER

- **12 VDC @ 200 mA**
- **Standby power:** <50 mW