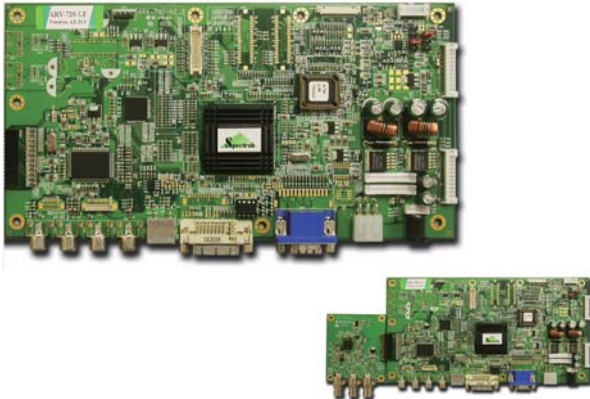




Broadcasting A/D Controller Board

ARV-7300 / 7306 / 7320 / 7326



Overview:

ARV-7300 series are professional Broadcasting AD Controller Board supporting most high definition LCD TV panels and also general monitor LCD panels. This product series support wide display resolutions from VGA (640 x 480) up to WUXGA (1920 x 1200), and also provide several enhanced functions such as picture in picture (PIP), advanced color management, dual power modules, YCbCr video ports, and dual inverter output ports.

Spectrah SDI-1590 is a HD-SDI/SD-SDI adapter card. It enhances the ARV-7300 series LCD controller boards to support HD-SDI broadcasting monitors, and allow users to drive high-definition video data over long cable distance.

Specifications:

ADC Controller

- Genesis GM1601 ADC chip
- Support PIP (Picture In Picture)
- Frame rate conversion feature support frame rate adjustment
- Adaptive color and contrast enhancement (Genesis ACC & ACM-II features)
- 8-bit triple-channel ADC / PLL
- Professional scaling engine
- Complete OSD functions

Video Decoder (ARV-732X only)

- Micronas VPC 3230D
- High-performance adaptive comb filter
- Multi-standard color decoder NTSC/PAL/SECAM

Input Interface

- DB-15 analog R.G.B. interface
- DVI-29 DVI digital interface
- RCA jack composite signal interface (ARV-732X only)
- S_Video YC signal interface (ARV-732X only)
- Components for YCbCr signal (ARV-732X only)

Video Input Support

- Composite, S_Video, YcbCr, and YPbPr ports
- NTSC / PAL interlaced signal
- Spatial de-interlacing

On Screen Display (OSD)

- Auto setup
- Brightness/ Contrast / Black level adjustment
- ACC / ACM-II color enhancement & Contrast adjustment
- Image V-position / H-position adjustment
- Auto color reset / Standard color setup
- Hue / Saturation / Color temperature adjustment

Panel Support

- TFT VGA 640 x 480
- TFT SVGA 800 x 600
- TFT XGA 1024 x 768
- TFT SXGA 1280 x 1024
- TFT UXGA 1600 x 1200
- TFT WUXGA 1920 x 1080
- TFT WUXGA 1920 x 1200

Image Processing Feature

- Auto-detection (Input format detection)
- Auto-configuration (Input positioning & Phase)

Power In Support

- LCD Panel: +3.3V, +5V, +12V
- Backlight Inverter: +3.3V, +5V, +12V, +24V

Image Scaling

- Scale up / down a lower / higher resolution images to fit higher / lower resolution panels

Panel Connection

- One 30-pin LVDS connector
- Two 40-pin TTL connectors (Optional)

VESA Standard

- Supports VESA DDC2B and a subset of VESA DPMS standards
- On board EDID ROM compliant with VESA DDC2B 1.X (Optional)

Power Requirement

- Single +12V/50W power adapter
- Single +24V/100W power adapter for LCD TV panels

Board Dimension

- 235 (L) mm x 123 (W) mm

Ordering Information:

- ARV-7300-VGA / SVGA / XGA / SXGA / UXGA / WUXGA (DVI, RGB)
- ARV-7306-VGA / SVGA / XGA / SXGA / UXGA / WUXGA (Audio, DVI, RGB)
- ARV-7320-VGA / SVGA / XGA / SXGA / UXGA / WUXGA (Video, DVI, RGB)
- ARV-7326-VGA / SVGA / XGA / SXGA / UXGA / WUXGA (Audio, Video, DVI, RGB)

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