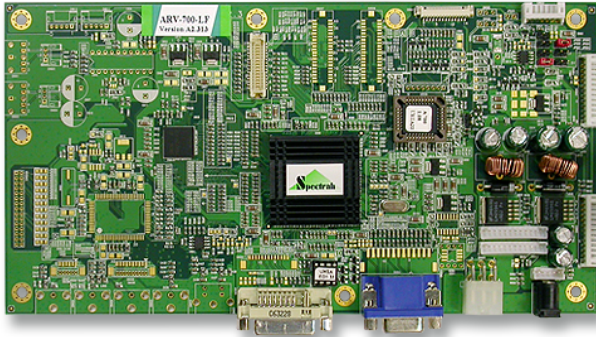




# A/D Converter Board

**ARV-700 / 706 / 720 / 726**



## Overview:

ARV-700/720 series are professional AD converter boards supporting most high definition LCD TV panels and also general monitor LCD panels. This product series supports wide display resolutions from VGA (640 x 480) up to WUXGA (1920 x 1200), and also provides several enhanced functions such as picture in picture (PIP), advanced color management, dual power modules, YCbCr video ports, and dual inverter output ports. ARV-700 series supports a wide range of LCD panels including AUO, Chi-Mei, IDTech, Sharp, Fujitsu, Hannstar, CPT, NEC, Toshiba, Samsung, LG, Optrex, and Mitsubishi.

## 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-72X 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-72X only)
- S\_Video YC signal interface (ARV-72X only)
- Components for YCbCr signal (ARV-72X 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-700-VGA / SVGA / XGA / SXGA / UXGA / WUXGA (DVI, RGB)
- ARV-706-VGA / SVGA / XGA / SXGA / UXGA / WUXGA (Audio, DVI, RGB)
- ARV-720-VGA / SVGA / XGA / SXGA / UXGA / WUXGA (Video, DVI, RGB)
- ARV-726-VGA / SVGA / XGA / SXGA / UXGA / WUXGA (Audio, Video, DVI, RGB)

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