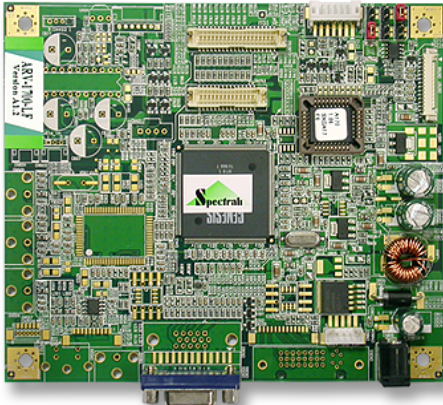




# A/D Converter Board

ARV-1700 / 1706 / 1720 / 1726 / 1750 / 1756



## Overview:

ARV-1700/1750 series are middle size of A/D converter boards designed for most industrial display systems or customized display devices. The ARV-1700 series provides excellent display quality from VGA (640 x 480) up to SXGA (1280 x 1024), ease of use, and cost efficient solutions for LCD panel users. The onboard Genesis controller is a high quality A to D and D to D receiver device capable of converting analog or PanelLink digital signals to the required R.G.B. signals for various LCD panels. The ARV-1700/1750 series provide complete signal input ports including computer RGB, DVI, and video interfaces including Composite, S\_Video, and YCrCb. ARV-1700/1750 support 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 MG5321/or GM5221 ADC chip  
High quality scaling engine  
8-bit triple-channel ADC/PLL  
Advanced color management  
Complete OSD functions

### Video Decoder (ARV-175X only)

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

### Input Interface

DB-15 R.G.B. interface  
DVI -29 DVI digital interface  
RCA jack composite signal interface  
S\_Video YC signal interface  
6-pin wafer connector for YCbCr signal

### Video Input Support

Composite, S\_Video, YCbCr, and YPbPr  
NTSC/ PAL interlaced and progressive signal  
Spatial de-interlacing

### On Screen Display (OSD)

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

### Panel Support

TFT VGA 640 x 480  
TFT SVGA 800 x 600  
TFT XGA 1024 x 768  
TFT SXGA 1280 x 1024  
Single 24-bit/18-bit TTL panels  
Single or dual LVDS panels

### Image Processing Feature

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

### Power In Support

LCD Panel: +3.3V, +5V, +12V  
Backlight inverter: +12V, +24V

### Image Scaling

Scale up / Down a lower/ Higher resolution images to fit higher/  
Lower resolution panels

### Panel Connection

One 40-pin TTL connector  
One 30-pin LVDS connector

### 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/45W Power adapter

### Board Dimension

140mm(L) x 120mm(W)

## Ordering Information:

- ARV-1700-VGA / SVGA / XGA / SXGA (RGB)
- ARV-1720-VGA / SVGA / XGA / SXGA (DVI, RGB)
- ARV-1706-VGA / SVGA / XGA / SXGA (Audio, RGB)
- ARV-1726-VGA / SVGA / XGA / SXGA (Audio, DVI, RGB)
- ARV-1750-VGA / SVGA / XGA / SXGA (Video, DVI, RGB)
- ARV-1756-VGA / SVGA / XGA / SXGA (Audio, Video, DVI, RGB)

## Spectrah Dynamics, Inc.

Tel: 886-2-86472026 | Fax: 886-2-86472201 | E-mail: spec\_info@spectrah.com  
Add: 5F-2, No. 188, Sec #3, Ta-tung Road, Hsi-Chi, Taipei Hsien 221, Taiwan.

[www.spectrah.com](http://www.spectrah.com)