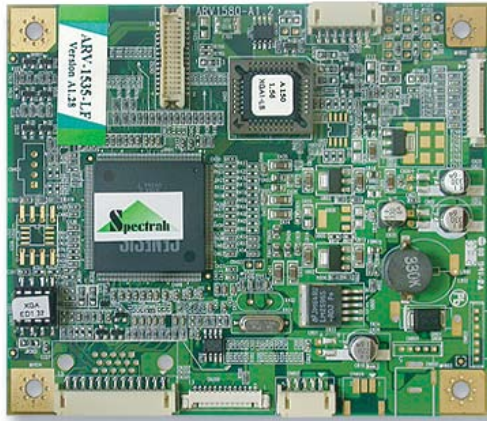




# A/D Converter Board

**ARV-1533 / 1535 / 1573 / 1575 / 1583 / 1585**



## Overview:

ARV-1583/1573 series are very thin (10mm thickness) and compact (120 x 103mm) A/D controller boards designed for special requirement in industrial display systems or customized display devices. The ARV-1583 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 converter with excellent scaler feature, capable of converting analog RGB signals to required digital signals for various LCD panels including AUO, Chi-Mei, IDTech, Sharp, Fujitsu, Hannstar, CPT, NEC, Toshiba, Samsung, LG, Optrex, and Mitsubishi.

## Specifications:

### ADC Controller

- Genesis GM5321 ADC chip
- High quality scaling engine
- 8-bit triple-channel ADC / PLL
- Advanced color management
- Complete OSD functions

### Input Interface

- Analog R.G.B. connector
- DVI signal connector (ARV-153x only)

### On Screen Display (OSD)

- Auto setup
- Brightness / Contrast / Black level adjustment
- Color temperature adjustment
- Image V-position / H-position adjustment
- 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: +3.3V, +5V, +12V

### Image Scaling

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

### Panel Connection

- One 30-pin LVDS connector (ARV-158x, ARV-153x)
- One 40-pin TTL connector (ARV-157x)

### 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

- 120(L) mm x 103(W) mm

## Ordering Information:

- ARV-1583-VGA / SVGA / XGA / SXGA (RGB, LVDS, +3.3V)
- ARV-1585-VGA / SVGA / XGA / SXGA (RGB, LVDS, +5V)
- ARV-1573-VGA / SVGA / XGA / SXGA (RGB, TTL, +3.3V)
- ARV-1575-VGA / SVGA / XGA / SXGA (RGB, TTL, +5V)
- ARV-1533-VGA / SVGA / XGA / SXGA (DVI, RGB, LVDS, +3.3V)
- ARV-1535-VGA / SVGA / XGA / SXGA (DVI, RGB, LVDS, +5V)

## 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)