



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 GM5321/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)

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