



# A/D Converter Board

## ARV-1550/1560



### Overview:

ARV-1550/1560 series are small size A/D converter boards designed for the small size of industrial display systems or customized display devices. The ARV-1550/1560 series provide excellent display quality 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 including AU, Chi-Mei, Sharp, CPT, Optrex, NEC, Toshiba, Samsung, and LG.

### 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

#### 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-1560)
- One 40-pin TTL connector (ARV-1550)

#### 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-1550-VGA / SVGA / XGA / SXGA (RGB, TTL)
- ARV-1560-VGA / SVGA / XGA / SXGA (RGB, LVDS)

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