

R2A — Composite via BNC

PC & Video interface for TFT panels

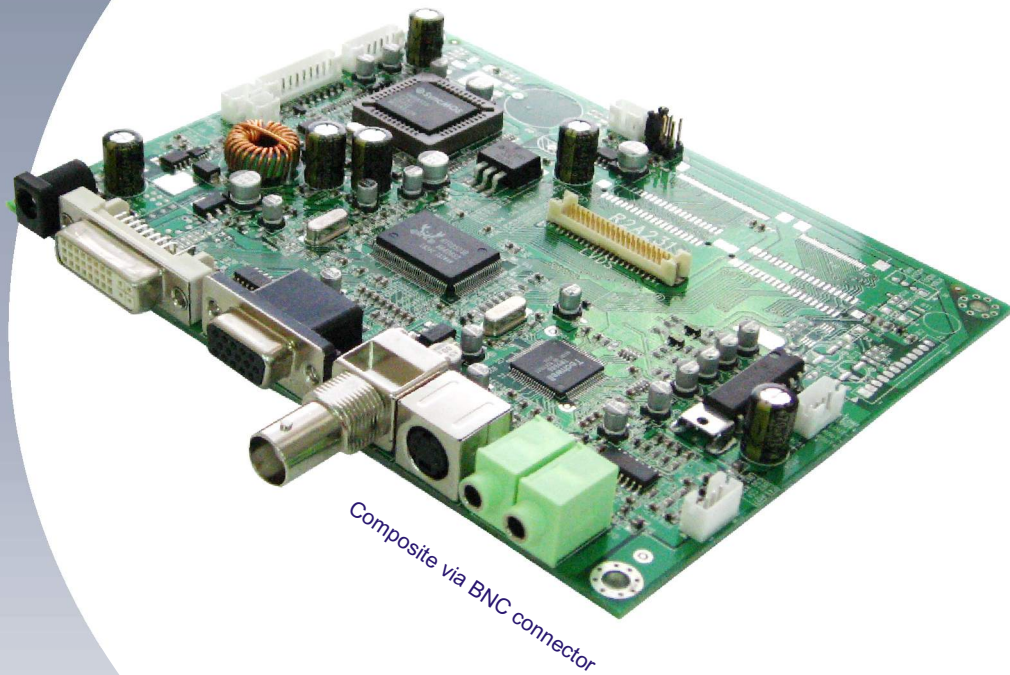


R2A interface controller for OEM monitor and packaged flat panel display solutions.

Panels: 1920x1080(option),1280x1024,1024x768,800x600,640x480 TFT color LCD & other

Input: Analog VGA, Video(PAL,NTSC), DVI-D, Audio

This AD board generates all the necessary control signals and the panel data to drive TFT-LCDs. It performs image scaling on 24-bit RGB or YUV data stream and feeds the scaled pixels to LCD panel. It accepts standard DVI and analog RGB and SYNC (CRTlike) signals from any VGA /SVGA/XGA/SXGA video controller. It also accepts NTSC/PAL video sources through a composite Video or S-Video connector. An OSD (On Screen Display) logic is embedded. The user interface includes Auto-Adjust, Phase, Brightness, Contrast, Horizontal and Vertical Position adjustment etc. An auto adjustment function provides automatic frequency, phase, H&V position, and white balance tuning.



Input Resolution

POWER

SXGA

DVI

WXGA

D-Sub

XGA

Composite Video

SVGA

S-Video

WVGA

Audio

VGA

Features

- Separate RGB Video signal.
- Composite Video Input via BNC
- S-Video input.
- NTSC/PAL Auto-switching control.
- Build-in YUV to RGB color space converter & de-interlace.
- Dual LVDS Interface Output.
- On-Screen Display Control.
- Support various panel from VGA to SXGA.
- RGB input Maximum resolution 1280x1024 (SXGA) @75Hz.
- Zoom scaling up and down.
- Automatic input source detection.
- Auto adjustment for frequency, phase, H/V position, and white balance.
- On chip brightness, contrast and gamma correction.
- VESA DDC1/2B: Software DDC1 and DDC 2B is supported.
- Build-in stereo audio device.
- Flexible firmware design to meet any custom design request.
- DVI input maximum resolution 1280x1024 (SXGA) @60Hz.
- Operating Temperature : 0 ~ +50°C
Storage Temperature : -20 ~ +60°C



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Panel Compatibility Guide

| Manufacture | Panel type |
|-------------|------------|
| AU | TFT |
| CHI MEI | TFT |
| CPT | TFT |
| Fujitsu | TFT |
| Hitachi | TFT |
| Hydis | TFT |
| LG | TFT |
| Mitsubishi | TFT |
| NEC | TFT |
| Prime View | TFT |
| Samsung | TFT |
| Sharp | TFT |
| Toshiba | TFT |
| Torisan | TFT |

Support for the above panels (and more as they become available) is being introduced progressively, please check at time for placing order for specific compatibility.

Order Information

| Item | Description |
|------|------------------------------------|
| 1 | DVI (Optional) |
| 2 | Panel signal cable & connector kit |
| 3 | Backlight inverter & cables kit |
| 4 | Audio function (optional) |
| 5 | Video function (optional) |
| 6 | IR kits |
| 7 | AC/DC adapter with +12V DC output |

A/D Board Drawing

| | |
|------|-------------------------------|
| J1 | Power Jack |
| DVI1 | DVI Connector |
| DB1 | VGA Connector |
| JP2 | Composite Video BNC Connector |
| JP1 | S-Video Connector |
| J12 | Audio Line in (PC) |
| J13 | Audio Line in (Video) |
| CON1 | Speaker Output connector |
| J10 | 8Bits LVDS Signal Output |
| J5 | Inverter Output Connector |
| CN1 | OSD Control Connector |
| JA1 | TTL Signal Output |
| JB1 | TTL Signal Output |
| PJ1 | TTL Signal Output |
| PJ2 | TTL Signal Output |
| J15 | IR Connector |
| J14 | Speaker Line in |

