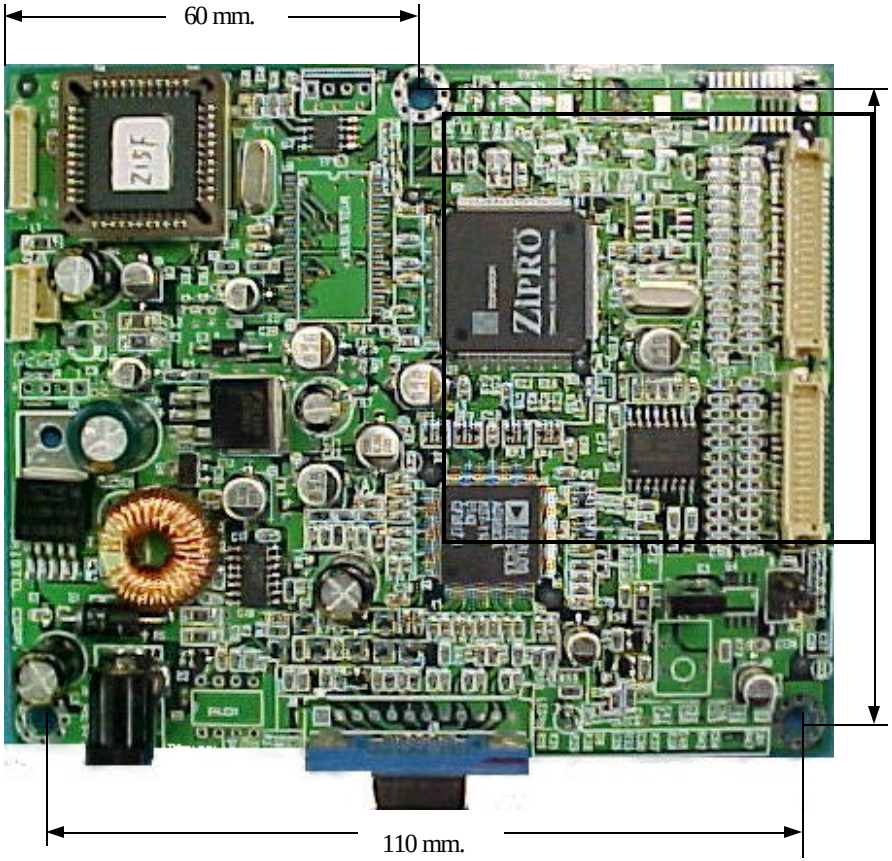

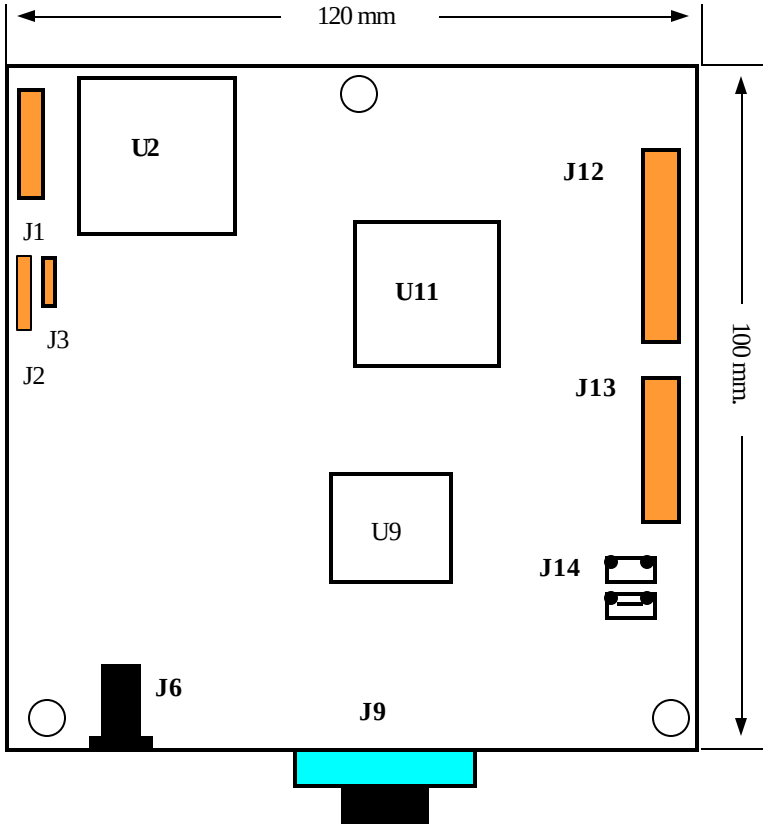

J1 - to OSD block control
J2 - supply external 12VDC & 5VDC / for TS /
J12 - to panel interface (CN1)
J13 - to panel interface (optional)

J14 - panel selection voltage
J9 - Dsub / DB15 / analog RGB
J6 - 12VDC input
optional: Comp. Video

KRISTEL **controller card** / for 8.4", 12.1", 15" & 18"

DESCRIPTION:

The generic AP72457 KRISTEL controller card is an analog RGB Interface for TFT LCD providing high quality of screen image from the analog RGB Input.
This board supports from VGA to XGA resolution at the maximum vertical refreshing rate of 70Hz with full screen image expantion on the TFT LCD from the different vendors . It gives a lot of convenient to the user who wants to use different LCD panel with same controller. All you need to do is to prepare a right interface cable for the selected LCD panel, change the panel selection jumper on the board, and to update accordingly U2 chip.

GENERAL FEATURES:

- Panel Support:

-VGA, SVGA and XGA resolution TFT LCD panels
-Up to 16M color

- Input Signal:

-All VESA standard RGB input with clear image
-Refresh rate from 56Hz to 70Hz

- Easy to use On-screen Display menu to control all supported function
- This controller has 5V or 3.3V TTL Interface. Due to the different signal timing and electrical characteristics from each LCD panel manufacturer, we need to use different Firmaware. (U2)
- LCD signal cable:

-In order to provide a good signal, it's recommended that LCD signal cables should be no longer than 20cm. But depends on signal frequency and LCD interface type.

- Inverter:

-Each LCD panels have their own inverter to obtain optimum performance and long life. The controller board just supplies the power for inverter logic and controls a light On/Off signal and a brightness control signal.

- Inverter cable:

- This cable supplies Inverter's power, and on/off control signal and a brightness control signal to the inverter.

APPLICABLE Graphic Mode:

The microprocessor measures the Hsync, Vsync and Vsync/Hsync polarity for RGB inputs, and uses this timing information to control all of the display operation to get the proper image on a screen.
This board can detect all VESA standard graphic modes (640x480, 800x600 and 1024x768)
For any other guidelines and installation, please contact Engineering Department , Kristel LP engineering@kristel.com