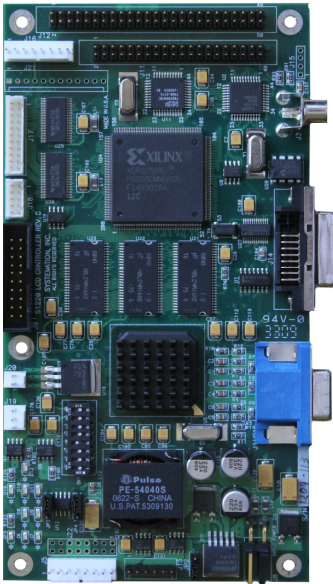


S 1 2 2 0

Multiple Input LCD Controller Board



- Extended temperature operation from -40°C to $+80^{\circ}\text{C}$
- This board is being used in rugged military and industrial applications
- Easy to use 3-button On-Screen Menu operation
- RS-232 serial port supports remote control
- Accepts VGA and DVI video inputs from 640x480 to 1600x1200
- VGA input supports RGBHV, RGsB and RGSB formats
- Accepts NTSC or PAL Video in either composite or S-Video format
- Non-standard video modes are supported
- Automatic position and sizing of all video to fit the LCD
- Provides a temperature sensor to monitor board temperature and control fan and heater control

The S1220 LCD Controller board from Systemation Technology Inc. provides a full function general purpose LCD Controller that can accept a variety of different video inputs including, Analog VGA (up to 1600 X 1200), DVI (Digital Video Interface), and Composite NTSC or PAL video. The S1220 can drive digital TTL type LCDs or single or dual channel LVDS type LCDs. User controls are provided using a 3-button interface to an On-Screen

Systemation Technology, Inc. has been in the video controller and custom computer board business for more than 10 years. Our video expertise includes the development of standard products, such as the S1220 board, as well as many custom boards for use with military, aviation, industrial and commercial products.

Quick turns are our specialty.

We can produce a custom prototype board in 8 weeks or less.

Questions or comments? Email us at info@systemation-inc.com or call (281) 332-7187

1321 3rd Street League City, Texas 77573 www.systemation-inc.com

SPECIFICATIONS

- **Video Inputs:** VGA Analog Type (HD-15 Connector)
RGBHV Format
RGSB Format
RGsB Format
DVI-D Type (DVI Connector)
Composite NTSC/PAL (Phonojack Connector)
S-Video input available on a non-populated header
- **Resolution:** up to 1600 X 1200 8 bits per color (16.67Mcolors)
- **LCD Output:** TTL, 48-bits or LVDS Single/dual channel LVDS
- **Input Power:** 12VDC (Typical) 9VDC to 14VDC (Range)
Current at 12V is 0.2A (excluding LCD)
- **User Controls:** 3-button selection to On-Screen Menu (Up, Down, Select Buttons)
Optional Controls: RS-232 commands for remote control
Additional Controls for fans, heaters, etc.
- **Image Processing:** Any image of any resolution can fit automatically on any resolution LCD.
- **Fan Control:** Connector J19 is a 12VDC fan control. The 12VDC voltage will switch ON when the ambient temperature 40C and back off at 35C
- **Heater Control:** Connector J20 is a 12VDC heater control. The 12VDC voltage will switch ON when the ambient temperature goes below 0C and back OFF when at 5C.

Systemation Technology, Inc. has been in the video controller and custom computer board business for more than 10 years. Our video expertise includes the development of standard products, such as the S1220 board, as well as many custom boards for use with military, aviation, industrial and commercial products.

Quick turns are our specialty.

We can produce a custom prototype board in 8 weeks or less.

Questions or comments? Email us at info@systemation-inc.com or call (281) 332-7187

1321 3rd Street League City, Texas 77573 www.systemation-inc.com