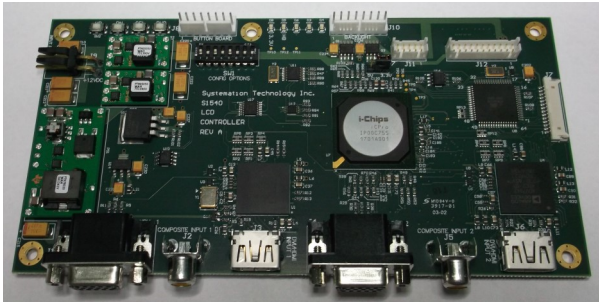


S 1 5 4 0

## Multiple Input LCD Controller Board Using iChips IP00C755 Scalar



- Dual video input (up to 1920x1200)
- DVI/HDMI, VGA and Composite NTSC/PAL Inputs
- Picture in Picture (PIP)
- Picture by Picture (PBP)
- 24-bit LVDS out 1ch/2ch (up to 1920x 1200)
- 12VDC input power (7-36V range)
- Image Processing and Rotate

The S1540 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 1920 X 1200), DVI (up to 1920x1200), and Composite NTSC or PAL video. The S1540 can drive any 1 ch/2 ch LVDS type LCD.

The S1540 board contains 2 sets of inputs to the scalar allowing for Picture-in-Picture (PIP) and Picture-by-Picture (PBP). In addition, the S1540 provides rotate (+/- 90 degrees), flip and mirror. Each input group consists of DVI/HDMI, VGA and Composite NTSC/PAL. The LVDS output of the C755 is used to drive single or dual channel LVDS LCDs. Power and control are provided to support most LCD backlights.

**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](mailto:info@systemation-inc.com) or call (281) 332-7187

1321 3rd Street League City, Texas 77573 [www.systemation-inc.com](http://www.systemation-inc.com)

Video Input 1:	VGA Analog (up to 1920x1200) HD-15 connector RGBHV Format, RGBS Format, RGsB Format HDMI Type connector Composite NTSC/PAL (Phonojack Connector)
Video Input 2:	VGA Analog (up to 1920x1200) HD-15 connector RGBHV Format, RGBS Format, RGsB Format HDMI Type connector Composite NTSC/PAL (Phonojack Connector)
Video Output:	1 or 2 channel LVDS Maximum Resolution 1920x1200 Maximum clock 165MHz
Colors:	8 bits per color
Input Power:	12VDC (Typical) 7VDC to 36VDC (Range) Reverse voltage protection
User Controls:	3-button board (Up, Down, Select )
Optional User Controls:	Serial port for remote control GPIO for digital controls
Backlight Control:	The Backlight Connector provided the following: 12VDC, 5VDC, Ground, PWM Brightness Control
Image Processing:	Any input can be displayed full screen with any other input as PIP or PBP. Any input can be displayed as Full Screen, 1:1, Fit-to-Width, Fit-to-Height, Rotate (90 deg +/-) Flip and Mirror.
Temperature Sensor:	An on-board temperature sensor displays the S1540 board temperature.
Environmental:	All components used are -40C to +85C
Board Size:	4" x 6" x 0.5"
Part Numbers & Ordering:	S1540-1 Only 1 Input provided (No PIP/PBP) S1540-2 Both Inputs provided

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