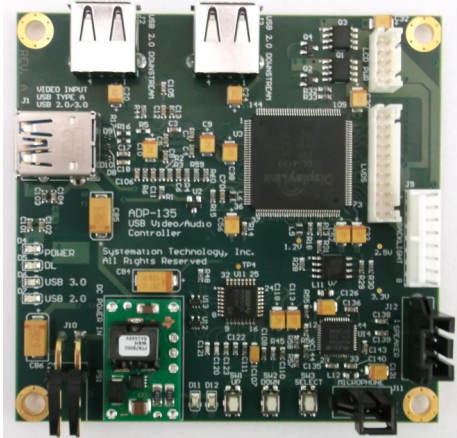


A D P - 1 3 5

USB 2.0/3.0 LCD Video/Audio Controller



- Converts USB 2.0 or 3.0 to LVDS with audio and USB hub
- Resolution up to 1920 x 1080
- Supports Windows XP—10, OSX 10.8 onwards, Android V5.0 onwards (manufacturer dependent), Ubuntu 14.10 onwards
- Board operates with external 12VDC power supply LVDS single or dual channel using Systemation 22-pin 2mm Connector pinout or 40-pin micro-coax VESA standard.

The Systemation ADP-135 board receives USB 2.0 or USB 3.0 and converts this into LVDS video to drive an LCD. Using the Displaylink DL-4120 video controller this board can drive a single channel or a dual channel LVDS LCD. Control and power are provided to drive a backlight driver interface.

The board contains a USB 2.0 4 port hub that provides 2 USB 2.0 downstream ports, the DL-4120 USB 2.0 support and a TI PCM2912 USB audio device. The PCM2912 has an audio input and an audio output. The audio output is a stereo output to a stereo speaker amplifier that supports 5W per channel. The audio input is a microphone input.

Buttons on the board allow the backlight brightness to be adjusted up, down, or off. The audio output is selected by the Windows driver and a Windows slider is used to adjust the audio volume.

The board is powered by an external 12VDC power supply. The board provides all power necessary to power the connected LCD.

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 support@systemation-inc.com or call (281) 332-7187

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

SPECIFICATIONS

1 – Inputs:	USB 2.0 or 3.0 Connector is USB 3.0 that supports both
2 – Power:	12VDC using external power input (0.2A not including the LCD)
3– Outputs:	LVDS single or dual channel using Systemation 22-pin 2mm Connector pinout or 40-pin micro-coax VESA standard.
4 – Backlight Control:	12VDC output with enable and PWM
5 – Controls:	3 on-board pushbuttons for Menu, Up, and Down. selects the menu for video) Volume Control provided by OS .
6 – Connectors:	1 - 12VDC Input (2-pin 0.156) 2 - USB 2.0/3.0 Type A 3 - LVDS (22-pin 2mm, 10-pin 2mm) 4 - Backlight (8-pin 0.1" Straight Molex) 5 – Speaker Output – 4 Pin Locking Molex 6 - Microphone In – 2 Pin Locking Molex
7 – Audio Output:	2 Channel 5W speaker output.
8 – Audio input:	Microphone input
9 – USB hub	2 Additional USB ports on board
10– Software	Displaylink provides drivers for: Windows (XP thru 10), MAC (OS X 10.8 and up), Ubuntu (14 and up), Android (5.0 and up compatibility also dependent on phone manufacturer)

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