



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



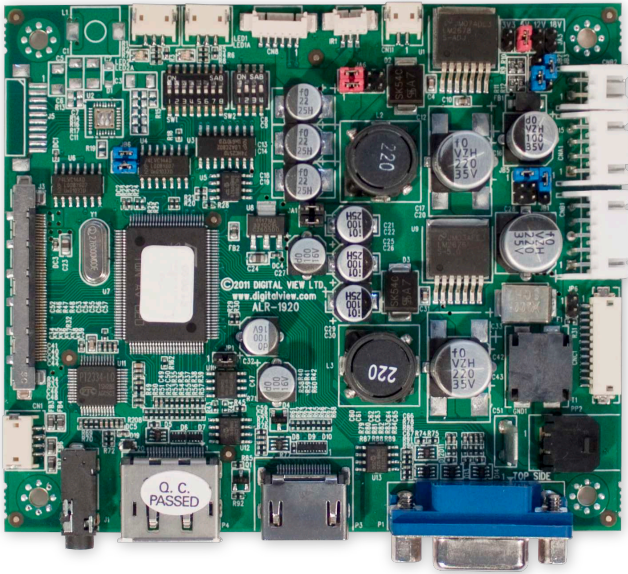
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## ALR-1920 Multi Purpose LCD Controller Board

### Key Features :

- > Supports multiple inputs - HDMI, VGA & DisplayPort
- > 1080p 1920x1200 Resolution
- > Host of advanced image control functions with OSD
- > For large format professional monitor applications

The Digital View ALR-1920 interface controller for high-definition, large format professional monitor applications.

The ALR-1920 is the entry level controller for driving the panel up to 1920x1200 resolution. This controller supports HDMI, VGA and DisplayPort input. And it will be the first Digital View controller to support Display Port input.

### Panel Connectivity

1920 x 1200	1366 x 768	1024 x 600
1920 x 1080	1280 x 1024	800 x 600
1680 x 1050	1280 x 800	800 x 480
1600 x 1200	1280 x 768	640 x 480
1440 x 900	1024 x 768	480 x 640

### Input

<b>Analog RGB:</b>	60Hz at WUXGA, UXGA, SXGA, WXGA, XGA, SVGA, VGA With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA-WUXGA, interlaced & non-interlaced
<b>HDMI 1.3:</b>	60Hz at WUXGA, UXGA, SXGA, WXGA, XGA, SVGA, VGA 1080p, 1080i, 720p, 576p, 480p
<b>DisplayPort 1.1a:</b>	60Hz at WUXGA, UXGA, SXGA, WXGA, XGA, SVGA, VGA 1080p, 1080i, 720p, 576p, 480p

### Reliability

Calculated Mean Time Between Failures In excess of 200,000 hours.  
Warranty: 3 years.

### Features

<b>Colors:</b>	Up to 8 bit per color, ie 16.7 million colors.
<b>Functions :</b>	On Screen Display (OSD) menu.
<b>Function Controls:</b>	External buttons, Infra-Red controls, Serial Port control
<b>Image Scaling :</b>	Up / Down scaling to fit input to panel format.
<b>Image Control :</b>	Brightness, Contrast, Sharpness, Clock, Phase, Color temperature, Image position, Gamma.
<b>Other Features :</b>	Auto picture setup, Auto RGB calibration, Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency, select input source, Volume control.
<b>Dimensions:</b>	107mm x 92mm x 16.65mm
<b>Form Factor:</b>	DV standard & mounting holes.
<b>Power:</b>	+12V/+24VDC ±5%, 4W (controller only)
<b>Panel Power:</b>	Supports 3.3V, 5V, 12V & 18V panels
<b>Panel Signal:</b>	LVDS
<b>Inverter Support:</b>	DPMS Enable pin (5V or 12/24V)
<b>Plug &amp; Play:</b>	DDC 1,2/b compatible
<b>Status Indicator:</b>	Dual color LED support

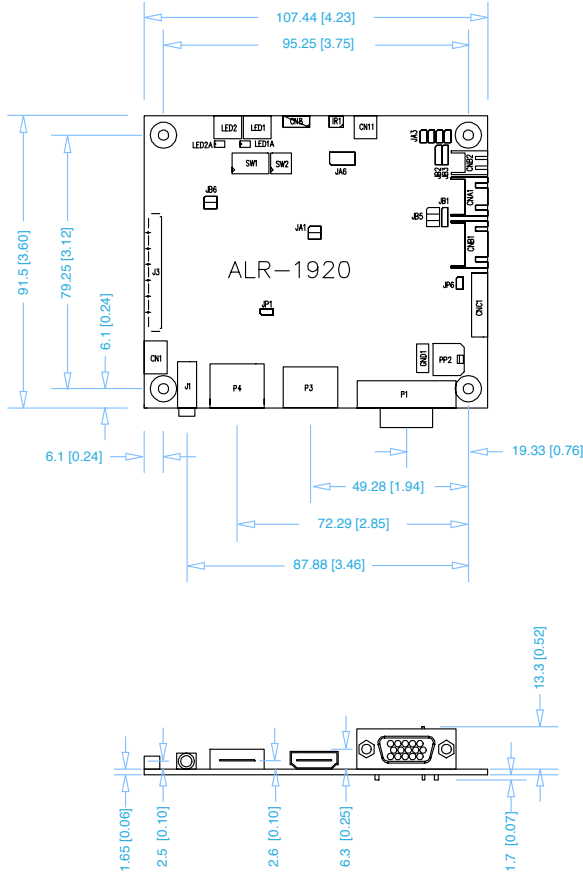
### Custom Engineering Services

Custom input timing, panel timing, splash screen, OSD Menu, conformal coatings, layouts etc

# ALR-1920

## Multi Purpose LCD Controller Board

### Mechanical Drawing



### Connector Definitions

- CN1** Audio output (Stereo) with amplification from HDMI / Display port
- CN8** RS-232 serial control
- CN11** SPDIF Audio output
- CNA1** Auxiliary power output
- CNB1** Backlight inverter
- CNB2** Backlight status input connector
- CNC1** OSD controls
- J1** Audio jack (Stereo) output from HDMI / Display port
- J3** LVDS panel signal
- IR1** Infra-Red sensor connector
- LED1** Controller status LED (Optional)
- LED2** Backlight status LED (Optional)
- P1** VGA analog input
- P3** HDMI input
- P4** DisplayPort input
- PP2** Power input

### Ordering Options

<b>ALR-1920 Controller Board</b>	<b>P/N 4172700xx-3</b>
OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67134-3
OSD Horizontal Membrane	Kit 67135-3
Inverter Interface board	P/N 416040010-3
IR Remote Control	P/N 559000106-3

### 3D Drawings (SLDPRT)

Save time and effort for your system volumetric analysis design. Includes jpg file previews.

Please download at:  
[www.digitalview.com/products/alr-1920-lcd-controller](http://www.digitalview.com/products/alr-1920-lcd-controller)

### Available Resources

- > Instruction Manual
  - > Revision Control Documentation\*\*
  - > Firmware Upgrade Manual\*\*
  - > Mechanical Drawing
- \*\* Available on Request

**Controller Solution Generator**  
<http://www.digitalview.com/csg>

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