

ALR-1920-SDI

Multi Purpose LCD Controller Board

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

The ALR-1920-SDI is a single board solution for supporting ARGB, HDMI, Display-Port and SDI inputs for driving panels up to 1920x1200 resolution. This controller is the combo version for ALR-1920 and HD-3000S.

This product is designed for monitor integration applications.

Panel Connectivity

1920x1200	1280x1024
1920x1080	1280x800
1680x1050	1280x768
1600x1200	1024x768
1600x900	1024x600
1400x1050	800x600
1440x900	800x480
1366x768	640x480

Input

Analog RGB:	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
HDMI 1.3:	60Hz at WUXGA, UXGA, SXGA, WXGA, XGA, SVGA, VGA 1080p, 1080i, 720p, 576p, 480p
DisplayPort 1.1a:	60Hz at WUXGA, UXGA, SXGA, WXGA, XGA, SVGA, VGA 1080p, 1080i, 720p, 576p, 480p
SDI:	576i50 (PAL) 480i60 (NTSC) 720p60/59.94/50/30/29.97/25 (4:2:2) 1035i60/59.94 (4:2:2) 1080p30/29.97/25/24/23.98 (4:2:2) 1080psf30/25/24/23.98 (4:2:2) 1080i60/59.94/50 (4:2:2) 1080p60/50 (4:2:2)

Reliability

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

Features

Colors:	Up to 8 bit per color, ie 16.7 million colors.
Functions:	On Screen Display (OSD) menu
Function Controls:	External buttons, Infra-Red controls, Serial Port control
Image Scaling:	Up / Down* scaling to fit input to panel resolution.
Image Control:	Brightness, Contrast, Sharpness, Color, Clock, Phase, Color temperature, Image position, Gamma.
Other Features:	Auto picture setup, Auto RGB calibration, Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency, select input source, Volume control, On board temperature reporting.
Dimensions:	185mm x 93.5mm x 18.3mm
Form Factor:	DV standard & mounting holes.
Power:	+12VDC ±5%, 0.8A (controller only)
Panel Power:	Supports 3.3V, 5V, 12V panels.
Panel Signal:	LVDS.
Inverter Support:	DPMS Enable pin (5V or 12V)
Plug & Play:	DDC 1,2/b compatible
Controller Status Indicator:	Dual color LED support
Backlight Status Indicator:	Dual color LED support.

* Shrink up to 50% of the input signal resolution compared to the panel resolution

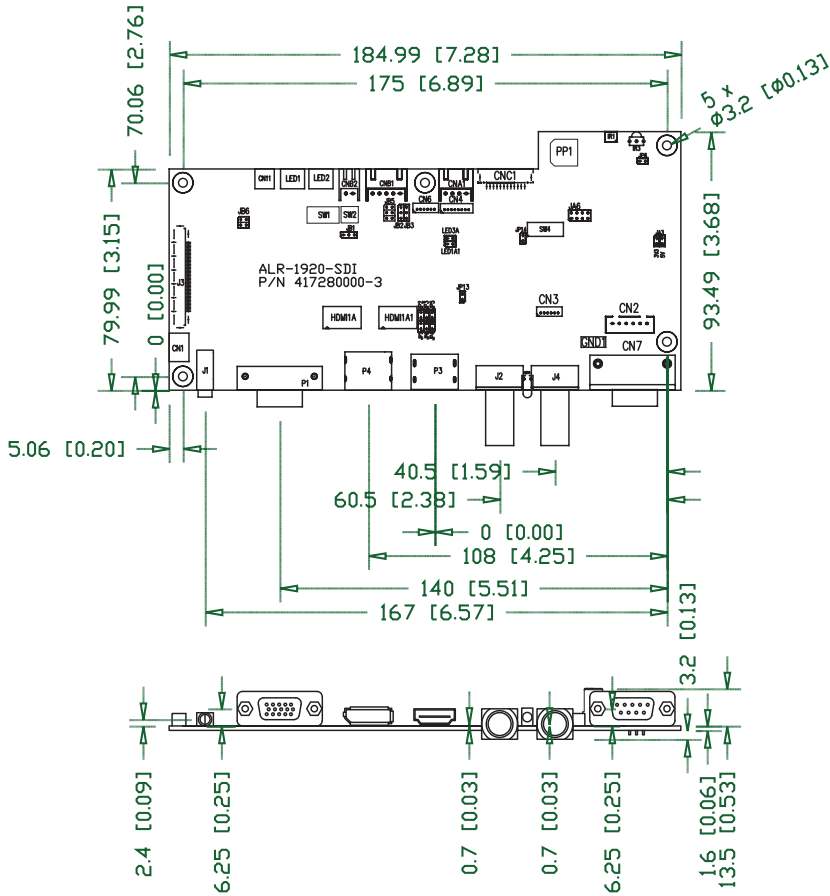
Custom Engineering Services

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

ALR-1920-SDI

Multi Purpose LCD Controller Board

Mechanical Drawing



Connector Definitions

- CN1** Audio output (Stereo) with amplification from HDMI / Display port / SDI
- CN7** 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 / SDI
- J2** SDI signal input
- J3** LVDS panel signal
- J4** SDI re-clock loop through output
- IR1** Infra-Red sensor connector
- LED1** Controller status LED (Optional)
- LED2** Backlight status LED (Optional)
- P1** VGA analog input
- P3** HDMI input
- P4** Display port input
- PP1** Power input

Ordering Options

ALR-1920-SDI	P/N 41728001X-3
Digital OSD button	Kit 67110-3
Horizontal membrane	Kit 67134-3
Vertical membrane	Kit 67135-3
Inverter Interface board	416040010-3
IR Remote Control	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-sdi-lcd-controller

Available Resources

- > Instruction Manual
- > Revision Control Documentation**
- > Firmware Upgrade Instruction
- > Mechanical Drawing

** Available on Request

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

EUROPE

6 Marylebone Passage, London, W1W 8EX, UK
 t : +44 (0) 20-7631-2150

ASIA

16th Floor Millennium City 3, 370 Kwun Tong Road, Kwun Tong, Hong Kong
 t : (852) 2861-3615

USA

18440 Technology Drive, Morgan Hill, CA 95037, USA
 t : +1 (408) 782-7773