DIGITALVIEW®

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 (4:2:2)
1080i60/59.94/50 (4:2:2)
1080p60/50 (4:2:2)

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

Reliability

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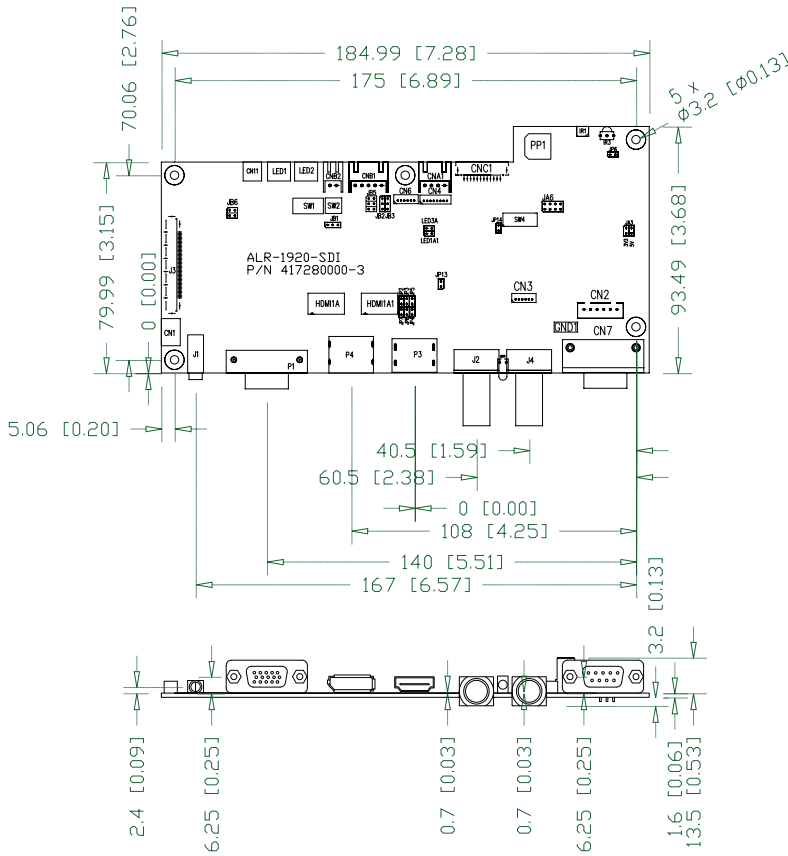
Custom Engineering Services

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

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Mechanical Drawing

ALR-1920-SDI
P/N 417280000-3

Connector Definitions

CN1	Audio output (Stereo) with amplication 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