

HLR-1920

LCD Controller for Harsher Environments

Based on the ALR-1920 LCD controller the HLR-1920 adds extended temperature range and resilience in harsher environments.

Key Features:

- » Up to 1920 x 1200 input / Up to 1920 x 1200 LCD panels
- » HDMI 1.4, DisplayPort 1.1a, VGA (ARGB)
- » LVDS panel connection @60Hz
- » Line memory buffer provides low latency
- » RS-232, USB*, I2C for commands & control

Panel Connectivity

LVDS (8 channel):	up to 1920 x 1200 @60Hz
Panel resolutions:	supports standard panel resolutions from 640 x 480 up to 1920 x 1200 and customization options for other resolutions

Input

HDMI 1.4:	60Hz up to 1920 x 1200
DisplayPort 1.1a:	60Hz up to 1920 x 1200
VGA (ARGB):	60Hz up to 1920 x 1200

Reliability

Calculated MTBF:	In excess of 100,000 hours
Warranty:	3 years

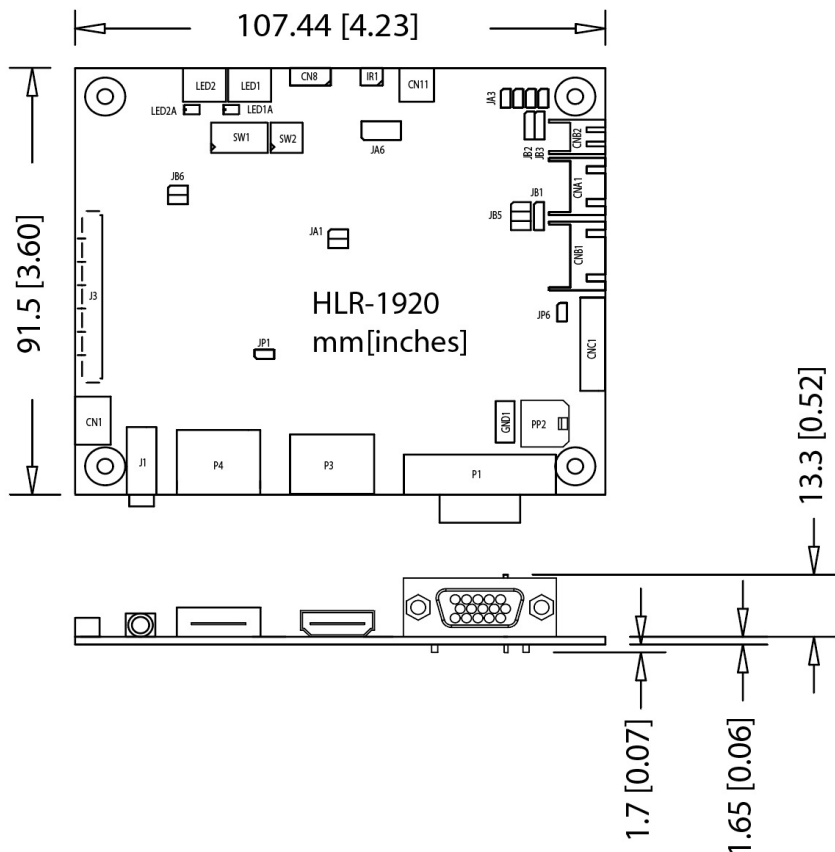
Features

Colors:	Up to 8 bit per color, ie 16.7m colors
Function Display:	On Screen Display (OSD) menu
Function Controls:	External buttons, Infra-Red controls, Serial Port control, USB*, optional Ethernet control with IP-60
Image Scaling:	Up / Down scaling to fit input to panel resolution
Image Control:	Brightness, Contrast, Color Temperature, Hue, Sharpness
Other Features:	System Information, Scaling to fill screen and fill to aspect ratio, Programmable hotkeys, Factory Reset, Picture in Picture, Picture by Picture, Ambient light sensor support, Enable frame buffer for FRC image enhancement, OSD menu transparency, DDC-CI support
Power:	+12VDC / +24VDC ±5%, 4W (controller only)
Panel Power:	Supports 3.3V, 5V, 12V & 18V panels
Inverter Support:	DPMS Enable pin (3.3V or 5V), PWM
Plug & Play:	DDC 1,2/b compatible
Status Indicator:	Dual color LED support
Audio:	Digital Audio SPDIF & Analog line-out

*with optional converter for USB to RS-232

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Mechanical Drawing



Connector Definitions

- CN1** Audio out, stereo, from HDMI, Displayport, amp
- CN8** RS-232 serial control
- CN11** SPDIF Audio output
- CNA1** Auxiliary power output
- CNB1** Backlight inverter
- CNB2** Backlight status input connector
- CNC1** OSD control
- J1** Audio out, stereo, from HDMI, Displayport
- J3** LVDS panel signal
- IR1** Infra-red sensor connector
- LED1** Power status LED (optional)
- LED2** Backlight status LED (optional)
- P1** VGA (ARGB) input
- P3** HDMI input
- P4** Displayport input
- PP2** Power input (alternative)

Ordering Options

HLR-1920

P/N: 44-----XX-3

- | | |
|-------------------------------|-------------------|
| OSD digital button board | Kit 67110-3 |
| OSD membrane kit - Vertical | Kit 67134-3 CHECK |
| OSD membrane kit - Horizontal | Kit 67135-3 CHECK |
| Inverter interface | P/N 416040010-3 |
| IR remote control | P/N 559000106-3 |

Drawings

- » 2D (jpg)
- » 3D (SLDPRT)

Download at:

<http://www.digitalview.com/products/hlr-1920-lcd-controller>

Available Resources

- » Instruction manual
 - » Revision control documentation
 - » Firmware upgrade manual**
 - » Mechanical drawings
 - » Custom engineering: Splash screen, OSD menu, coatings, & more...
- ** Available on request

Controller Solution Generator

<http://www.digitalview.com/csg>

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EUROPE

The Lake House, Knebworth Park, Herts, SG3 6PY, UK
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The QR code above links to the product page on the website