

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

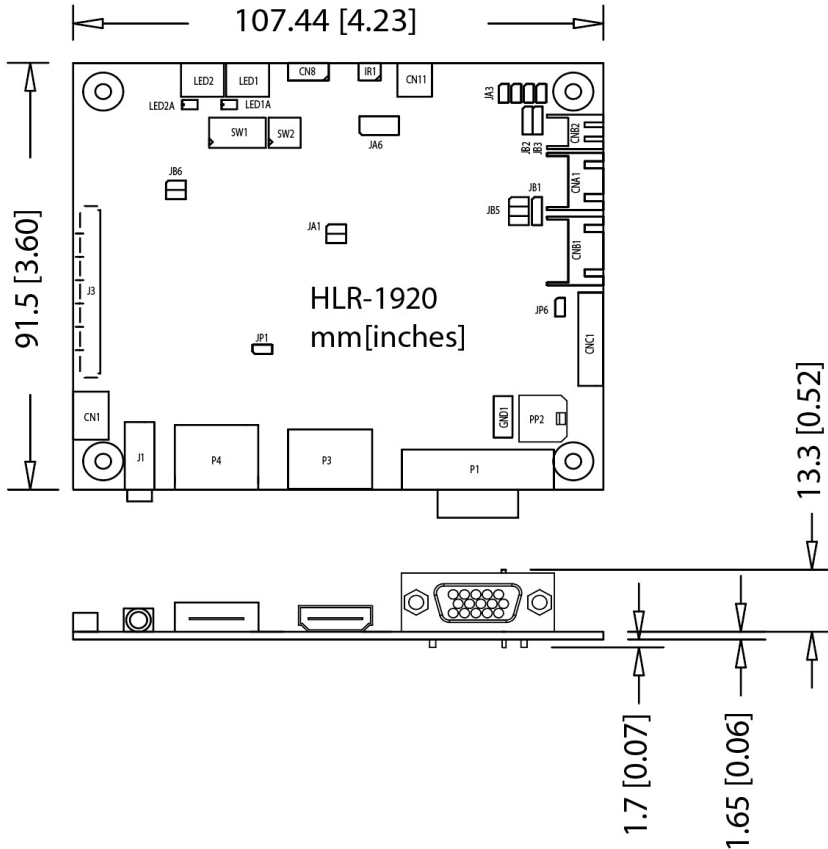
Features

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>

USA

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

EUROPE

The Lake House, Knebworth Park, Herts, SG3 6PY, UK
t: +44 (0) 20-7631-2150

ASIA

2/F Bamboos Centre, 52 Hung To Rd, Kwun Tong, Hong Kong
t: (852) 2861-3615



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