

LCD Panel Support

| Connectivity: | LVDS (Single/Dual channel), |
|-----------------------|---|
| | up to 1920 x 1080, 1920 x 1200 @60Hz |
| Panel power: | Supports 3.3V, 5V, 10V, 12V & 18V panels |
| Panel compatibility: | All major brands |
| Resolutions & timing: | Supports common panel resolutions and timings from 640 x 480 up to 1920 x 1200 selected by dip switch. Customization available for other LCD panel resolutions. |

Input / Sources

| HDMI 1.4: 1xconnector, 1xheader | 60Hz up to 1920x1200 75Hz up to 1600x1200 |
|---|--|
| DVI-D (single-link 1.0): 1xconnector | 60Hz up to 1920x1200 75Hz up to 1600x1200 CVT modes |
| Analog RGB ('VGA'): 1xconnector | 60Hz up to 1920x1200 75Hz up to 1600x1200 Auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA~WUXGA, interlaced & non- interlaced |
| Composite: 1xBNC, 1xheader | PAL, NTSC |
| Component: 1xheader | PAL, NTSC 480p, 576p, 720p, 1080i, 1080p |
| EDID (coming soon): | The EDID preferred timing data is automatically set by reference to the LCD panel resolution settings (VESA data). Custom EDID data programming is available as an OEM option. |

HSP-1920 LCD Controller for LCD Panels up to 1920x1200 Resolution

The Harsh Environment version of the SP-1920 LCD controller. The HSP-1920 includes H.264 media failover support. In addition the Composite input support is ideal for legacy and analog video applications.

Key Features:

Features

- » LCD support: 1920x1200, 10-Bit
- » Panel connectivity: LVDS
- » Inputs: HDMI x2, DVI, VGA, Component, Composite x2
- » Integrated H.264 media player / failover
- » Separate power in for high power panels
- » RS-232 control, IR remote control
- » Part number: 4176001xx-3.

Colors: Up to 10 bit per color, ie 1billion colors Function Display: On Screen Display (OSD) menu Function Controls: External buttons, IR remote, Serial Port commands Image Scaling: Up/Down scaling to fit input to panel resolution Image Control: Backlight brightness, Contrast, Color Temperature, Image positioning, Saturation, Hue, Sharpness, Black level. Other Features: Input source select, Auto source seek, Auto picture setup, Auto color goain, Manual clock & phase, OSD timeout, OSD menu transparency, Image orientation, System Information, Aspect ratio. Load factory defaults. Input source failover functions. Power: +12VDC / +24VDC ±5%, 2.5W (controller only) Inverter Support: PWM, D/A DPMS Enable pin (3.3V or 5V) Plug & Play: DDC 1,2/b compatible Status Indicator: Dual color LED support **Dimensions:** 179mm x 120.4mm (7" x 4.8") Operating Temp: -20°C to +80°C

Custom Splash-screen: The HSP-1920 supports a custom splash-screen when powering on. This custom firmware option.

Firmware Update: The firmware version of the HSP-1920 can be updated using a USB flash key.

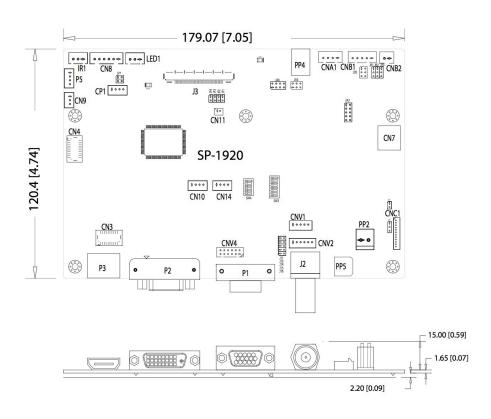
Reliability

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

AILA

HSP-1920 LCD Controller for Commercial Monitors

Mechanical Drawing



Connector Definitions

| CN3 | Alternate HDMI 1 input connector |
|------|---|
| CN4 | HDMI 2 input connector |
| CN7 | Audio board connector |
| CN8 | RS-232 serial control |
| CN9 | Ambient Light sensor connector |
| CN10 | Analog (Stereo) audio in |
| CN11 | SPDIF audio output connector |
| CN14 | Analog (Stereo) audio out |
| CNA1 | Auxiliary power input |
| CNB1 | Backlight inverter |
| CNB2 | Backlight status input connector |
| CNC1 | OSD controls |
| CNV1 | Alternate Composite 1 and 2 input connector |
| CNV2 | HD/SD Component video input connector |
| CNV4 | Alternate VGA input connector |
| CP1 | Reserved for factory use for programming |
| IR1 | Infra-Red Sensor connector |
| J2 | Composite video 1 in |
| J3 | Panel signal for LVDS panel |
| LED1 | Dual Color LED connector |
| P1 | VGA analog input |
| P2 | DVI-D input |
| P3 | HDMI 1 connector |
| P5 | USB input connector |
| PP2 | Power input (alternate) |
| PP4 | External panel power input |
| PP5 | Power input |

Ordering Options

HSP-1920

OSD digital button board OSD membrane kit - Vertical OSD membrane kit - Horizontal Inverter interface IR remote control Audio Add-on board

P/N: 4176001xx-3

Kit 67110-3 Kit 67135-3 Kit 67134-3 P/N 416040010-3 P/N 559000106-3 P/N 416940020-3

Drawings (pending)

2D (dwg) >> 3D (SLDPRT and IGS) >>

Download at: http://www.digitalview.com/products/ hsp-1920-lcd-controller

Resources (pending)

- 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



www.digitalview.com

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

705-708, 7/F Texwood Plaza, Kwun Tong, Hong Kong t: (852) 2861-3615

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