

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.

Custom panel timing available for other LCD

panels & resolutions.

Input / Sources

HDMI 1.4: 60Hz up to 1920x1200

1xconnector, 1xheader 75Hz up to 1600x1200

DVI-D (single-link 1.0):

60Hz up to 1920x1200 1xconnector 75Hz up to 1600x1200

CVT modes

Analog RGB ('VGA'):

1xconnector 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 (interlaced)

60Hz up to 1920x1200

Component: PAL. NTSC

1xheader 480p, 576p, 720p, 1080i, 1080p

EDID: 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 option.

SP-1920v2

LCD Controller for LCD Panels up to 1920x1200 Resolution

Designed for commercial LCD display systems such as digital signage, the SP-1920 includes H.264 media failover support. In addition the Composite input support is ideal for legacy and analog video applications.

Key Features:

- » LCD support: from 640x480 to 1920x1200, 10-Bit
- Panel connectivity: LVDS
- Inputs: HDMI x2, DVI, VGA, Component, Composite x1
- Integrated H.264 media player / failover
- Separate power in for high power panels
- RS-232 control, IR remote control
- Part number: 4178100xx-3.

Features

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 gain, Manual clock & phase, OSD timeout, OSD menu transparency, Image orientation, System Information, Aspect ratio. Load factory defaults. Programmable hotkeys. Gamma.

Power: +12VDC / +24VDC ±5%, 4W (controller only)

Input source failover functions. Volume.

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")

Custom Splash-screen: The SP-1920v2 supports a custom splash-

screen when powering on. This custom firmware option.

Firmware Update: The firmware version of the SP-1920v2 can be updated using a USB flash key.

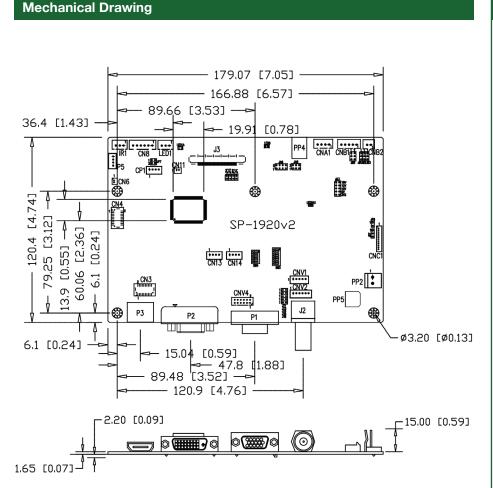
Reliability

Calculated MTBF: In excess of 500,000 hours

Warranty: 3 years



SP-1920v2 LCD Controller for Commercial Monitors



Connector Definitions	
CN3	Alternate HDMI 1 input connector
CN4	HDMI 2 input connector
CN6	Ambient light sensor connector
CN8	RS-232 serial control
CN11	SPDIF audio output connector
CN13	Analog (Stereo) audio in
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 loop out connector
CNV2	HD/SD Component video input connector
CNV4	Alternate VGA input connector
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

SP-1920v2

IR remote control

OSD digital 8 button board Kit 67110-3 OSD digital 5 button board Kit 67204-3 OSD membrane kit - Vertical Kit 67135-3 OSD membrane kit - Horizontal Kit 67134-3 P/N 559000106-3

Drawings

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

Download at:

http://www.digitalview.com/products/ sp-1920v2-lcd-controller

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



www.digitalview.com

P/N: 4178100xx-3

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

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

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