

SVH-1920 HD LCD Controller Board

Key Features :

- > 8-Bit, 1920 x 1200
- > Multiple Signal Inputs
- > DVI, VGA, Video
- > PAL, NTSC, SECAM Support

The SVH-1920 is a fully buffered multi-sync interface controller for providing analog and digital connection for a wide range of TFT LCD panels up to WUXGA resolution. Featuring full screen image expansion of lower resolutions, image flip and invert functions and onscreen PIP functions, the SVH-1920 also supports an optional High-Definition Serial Digital Interface (HD-SDI) adaptor for professional and broadcast video applications.

Panel Connectivity

1920 x 1200	1366 x 768	800 x 480
1920 x 1080	1280 x 1024	800 x 600
1680 x 1050	1280 x 800	640 x 480
1600 x 1200	1280 x 768	
1440 x 900	1024 x 768	

Input

Analog RGB	60Hz at WUXGA, UXGA 75Hz at SXGA, WXGA, XGA, SVGA, VGA
DVI-D	With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGAWUXGA, interlaced & non-interlaced
Video	60Hz at WUXGA 60Hz at UXGA 75Hz at SXGA, WXGA, XGA, SVGA, VGA NTSC / PAL / SECAM (Interlaced) Composite Video S-video HD / SD Component

Options

HD-SDI Daughter board, Infra-Red Remote handset, 2W per channel Audio Amplifier.

Reliability

Calculated Mean Time Between Failures
 In excess of 100,000 hours. Warranty : 3 years

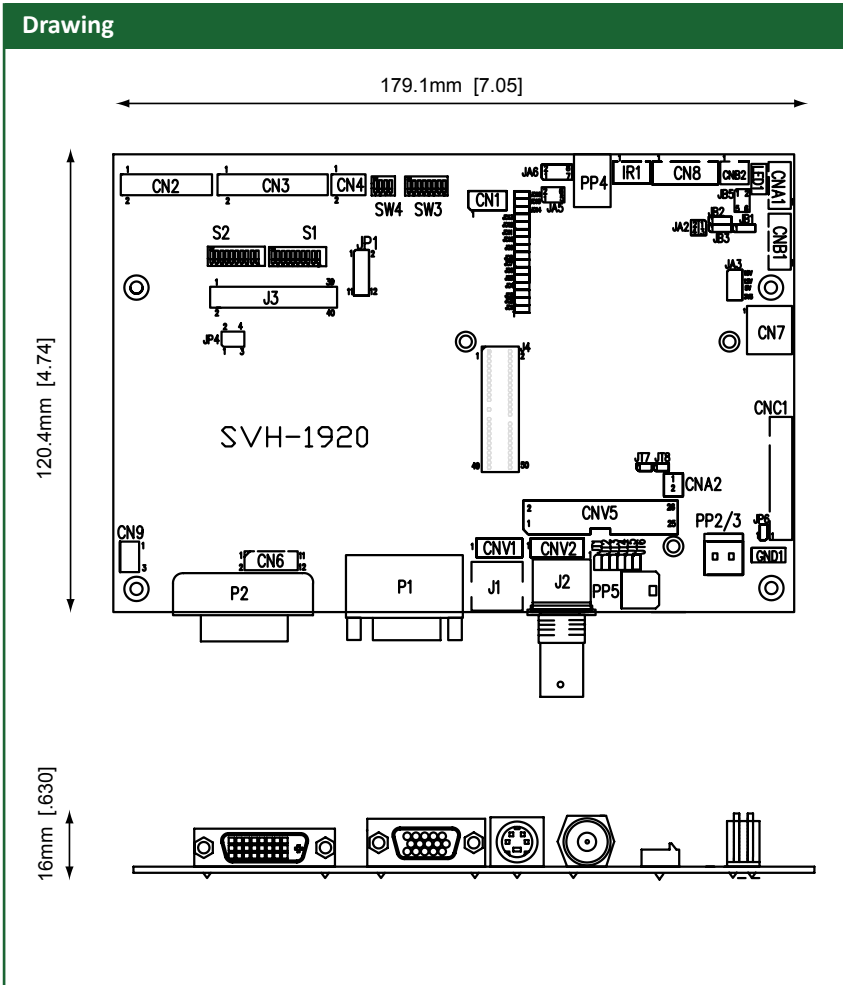
Features

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 format
Image Control :	Auto configuration, Brightness, Contrast, Clock, Phase, Color temperature, Image position, Saturation, Hue, Gamma.
Other Features :	System Information, OSD position, Scaling to fill screen and fill to aspect ratio, OSD timeout, Factory reset, OSD menu transparency, Horizontal & Vertical image inversion, Picture in Picture - variable position, any input combination (3 sizes), Programmable hot keys, Serial port protocol, Ambient light sensor.
Power Requirements :	+12VDC / +24VDC ±5%,10W (controller only)
Panel Power :	Supports 3.3V, 5V, 12V & 18V panels.
Panel Signal :	Dual channel TTL & LVDS support.
Inverter Support :	DPMS Enable pin (3.3V or 5V)
Plug & Play :	DDC 1,2/b compatible
Status Indicator :	Dual Color LED support.

SVH-1920

High Resolution LCD Controller Board

Drawing



Connector Definitions

CN2	TTL Panel Signal
CN3	TTL Panel Signal
CN4	TTL Panel Signal
CN5	Alternate HDMI connector
CN7	Audio board connector
CN8	RS-232 serial control
CN9	Ambient light sensor connector
CNA1	Auxiliary power output
CNA2	Auxiliary +5VDC output
CNB1	Backlight inverter
CNC1	OSD controls
CNV1	Alternate Video-In
CNV2	Component Video-In
CNV5	Auxiliary Video-In
J1	S-Video In
J2	Composite Video-In
J3	Panel Signal for LVDS Panel
J4	HD-SDI adaptor board interface
IR1	Infra-Red sensor connector
LED1	Dual color LED connector
P1	VGA Analog input
P2	DVI-D input
PP2/PP3	Power input (Alternate)
PP4	External panel power input
PP5	Power input

Ordering Options

SVH-1920 Controller Board	Part No: 4169600xx-3
OSD Digital Button Board	Kit 60110-3
OSD Vertical Membrane	Kit 60121-3
OSD Horizontal Membrane	Kit 60125-3
Inverter Interface Board	P/N 416040010-3
Audio Amplifier	P/N 416940020-3
IR Remote Control	P/N 559000106-3

HD-SDI Adaptors :

Single Channel (HD-1000)	P/N 4160134xx-3
Dual Channel (HD-2000)	P/N 4160133xx-3

3D Drawings (SLDPRT)

Save time and effort for your system volumetric analysis design. Inc jpg file previews.

Please download at www.digitalview.com/products/svh-1920-lcd-controller

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