

SVH-1920v2 HD LCD Controller Board

Key Features :

- > 10 bit color
- > Updated LVDS connectors
- > eDP panel support
- > 18 PiP options
- > Ceramic capacitors
- > DVI, VGA, Video

The SVX-1920v2 is a fully buffered multi-sync interface controller for providing analog and digital connection for a wide range of TFT LCD panels up to 1920x1200 resolution. Featuring full screen image expansion of lower resolutions, image flip and invert functions and onscreen PIP functions, the SVH-1920v2 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 up to 1920x1200 75Hz up to 1280x1024 With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync, Auto Detects VGA, WUXGA interlaced & non-interlaced
DVI-D:	60Hz up to 1920x1200 75Hz up to 1280x1024
Video:	NTSC / PAL / SECAM (interlaced) Composite Video S-video HD / SD Component

Options

HD-SDI Daughter board, IR Remote, 2W per channel stereo Audio Amplifier

Reliability

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

Features

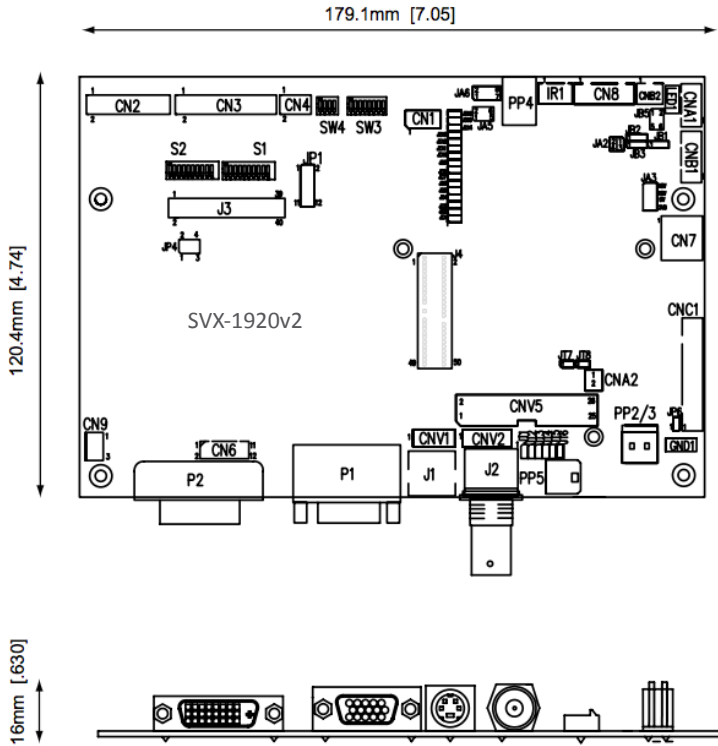
Colors:	Up to 10 bit per color, ie 1.06 billion colors
Functions :	On Screen Display (OSD) menu
Function Controls:	External buttons, Infra-Red controls, Serial Port control
Image Scaling :	Up / Down scaling to fit input to panel resolution
Image Control :	Auto configuration, Brightness, Contrast, Clock, Phase, Color Temperature, Image position, Hue, Saturation, 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 (18 sizes), Picture by Picture, Programmable hot keys, Serial port protocol, Ambient light sensor
Power:	+12VDC / +24VDC ±5%, 10W (controller only)
Panel Power:	Supports 3.3V, 5V, 12V & 18V panels
Panel Signal:	Dual channel LVDS support eDP
Inverter Support:	DPMS Enable pin (3.3V or 5V)
Plug & Play:	DDC 1,2/b compatible
Status Indicator:	Dual color LED support

*Specifications subject to change

SVH-1920v2

HD LCD Controller Board

Mechanical Drawing



Connector Definitions

CN1	Second RS-232 serial control
CN6	Input connector
CN7	Audio board connector
CN8	RS-232 Serial Control
CN9	Ambient Light Sensor Connector
CN11	SPDIF Audio Output
CNA1	Auxiliary Power Output
CNA2	Auxiliary +5VDC
CNB1	Backlight inverter
CNB2	Backlight Status Input Connector
CNC1	OSD Control
CNV1	Alternate video in
CNV2	HD/SD Component video in
CNV5	Auxiliary video input S-video 1&2 composite 1&2
CP3	Reserved for internal programming
J1	S-video 1 in
J2	Composite video 1 in
J3	Panel signal for LVDS panel
J4	HD-SDI adaptor board interface connector
J5	Display port output for panel connection
J6	Panel power output for DisplayPort
IR1	Infra-red Sensor Connector
LED1	Dual color LED connector
P1	VGA analog input
P2	DVI-D or VGA 2 input
PP2/PP3	Power input
PP4	External panel power input
PP5	Power input

Ordering Options

SVX-1920v2

Single Channel HD-1000
 Single Channel HD-2000
 OSD Digital Button Board
 Vertical Membrane OSD
 Horizontal Membrane Kit
 Inverter Interface board
 Audio Amplifier IR Remote Control

P/N 4175100xx-3

P/N 4160134xx-3
 P/N 4160133xx-3
 Kit 67110-3
 Kit 67121-3
 Kit 67134-3
 P/N 416040010-3
 P/N 416940020-3
 P/N 559000106-3

Drawings

- > Includes 2D (jpg)
- > 3D (SLDPRT)

Please download at:
www.digitalview.com/products/SVH-1920v2

Available Resources

- > Instruction Manual
 - > Revision Control Documentation**
 - > Firmware Upgrade Manual**
 - > Mechanical Drawing
- ** Available on Request

Controller Solution Generator
<http://www.digitalview.com/csg>

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