

SVX-1920 HD LCD Controller Board

Part No: 41721003x-3

The Digital View SVX-1920 interface controller for high-definition, large format professional monitor applications

The SVX-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. It is a true 10-bit board that gives 10-bit color deep on a 10-bit panel. The board featuring full screen image expansion, on screen PIP, image marker and supports an option 3G HD-SDI converter board (HD-3000) through HDMI port for professional and broadcast video applications. It is part of Digital View's "Professional Class" video controller family featuring advanced capabilities, support and custom development paths for OEM clients.

Panel Connectivity

1920x1200	1440x900	1024x768
1920x1080	1366x768	800x600
1680x1050	1280x1024	800x480
1600x1200	1280x768	640x480

Input

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

Options

3G HD-SDI converter board (HD-3000), Infra-Red Remote handset, 2W Channel Audio Amplifier

Reliability

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

Specification

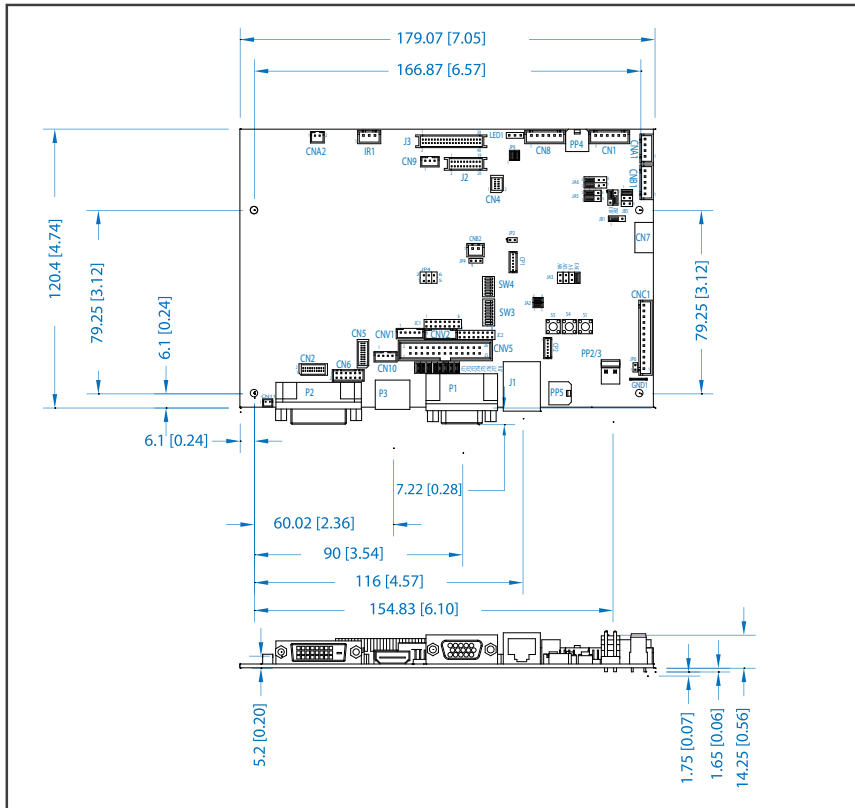
Colors:	Up to 10-bit per color, ie 1.06 Billion colors.
Functions :	On Screen Display (OSD) menu.
Function Controls:	External buttons, Infra-Red controls, Serial Port control, Ethernet Control.
Image Scaling :	Up/Down scaling to fit input to panel format.
Image Control :	Auto configuration, Brightness, 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, Picture in Picture variable position with 18 size selections and Picture by Picture, Program mable hot keys, Ambient light sensor, Display real time clock.
Power Requirements :	+12VDC / +24VDC ±5%,10W (controller only)
Panel Power :	Supports 3.3V, 5V, 12V & 18V panels.
Panel Signal :	Dual channel LVDS support.
Inverter Support :	DPMS Enable pin (3.3V or 5V)
Plug & Play :	DDC 1,2/b compatible
Status Indicator :	Dual Color LED support.



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Connector Definitions

- CN3** TTL Panel Signal
- CN1** Second RS-232 serial control
- CN2** Alternate DVI connector
- CN4** Panel control signal connector
- CN5** Alternate HDMI connector
- CN6** Reserved
- CN7** Audio board connector
- CN8** RS-232 serial control
- CN9** Ambient light sensor connector
- CN10** HDMI audio (Stereo) output
- CN11** SPDIF Audio output
- CP1** Reserved for engineering use
- CP2** Reserved for engineering use
- CNA1** Auxiliary power output
- CNA2** Auxiliary +5VDC output
- CNB1** Backlight inverter
- CNB2** Backlight status input connector
- CNC1** OSD controls
- CNV1** Composite and S-video in
- CNV2** HD / SD Component video in
- CNV5** Auxiliary video input
- J1** Ethernet for network connection
- J2** Additional panel power output
- J3** Panel signal for LVDS panel
- IR1** Infra-Red sensor connector
- LED1** Dual color LED connector
- P1** VGA analog input
- P2** DVI-D input
- P3** HDMI input
- PP2/PP3** Power input (alternative)
- PP4** External panel power input
- PP5** Power input

Accessories

- | | |
|-----------------|-----------------------------|
| P/N 416016040-3 | 3G HD-SDI Adaptor (HD-3000) |
| P/N 416040010-3 | Inverter Interface board |
| P/N 416940020-3 | Audio Amplifier |
| P/N 559000106-3 | IR Remote Control |
| Kit 60110-3 | OSD Button Board |
| Kit 60121- 3 | OSD Membrane Kit |
| Kit 60125- 3 | OSD Membrane Kit |

Ordering Options

P/N: 41721003x-3 SVX-1920 Controller Board

Available Documentation

- Instruction Manual
- Revision Control Documentation**
- Firmware Upgrade Instruction**
- Mechanical Drawing

** Available on Request

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