

SP-4096

4K Ultra-HD LCD Controller with Failover Messaging or Media

The SP-4096 is an easy to use and cost effective LCD controller for commercial monitors & displays supporting LCD panels up to 4096 x 2160 resolution. Ideal for digital signage and industrial video displays.

Key Features:

- » Up to 4096 x 2160 video input / Up to 4096 x 2160 LCD panels
- » HDMI 2.0, HDMI 1.4, DVI-I
- » V-by-One panel connection @60Hz
- » Full frame memory buffer for enhanced image control
- » RS-232, I2C for commands & control
- » Part Number: 41761001x-3

Panel Connectivity

V-by-One (8 channel):	up to 4096 x 2160 @60Hz
Panel resolutions:	4096 x 2160, 3840 x 2160, 2560 x 1440/1600 1920 x 1200, 1920 x 1080

Input

HDMI 2.0: (x2 connector)	60Hz up to 4096 x 2160 75Hz up to 1600 x 1200
HDMI 1.4: (x1 header)	30Hz up to 4096 x 2160 60Hz up to 2560 x 1600 75Hz up to 1600 x 1200
DVI-I Single Link: (x1 header)	60Hz up to 1920 x 1200 75Hz up to 1600 x 1200

Reliability

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

Features

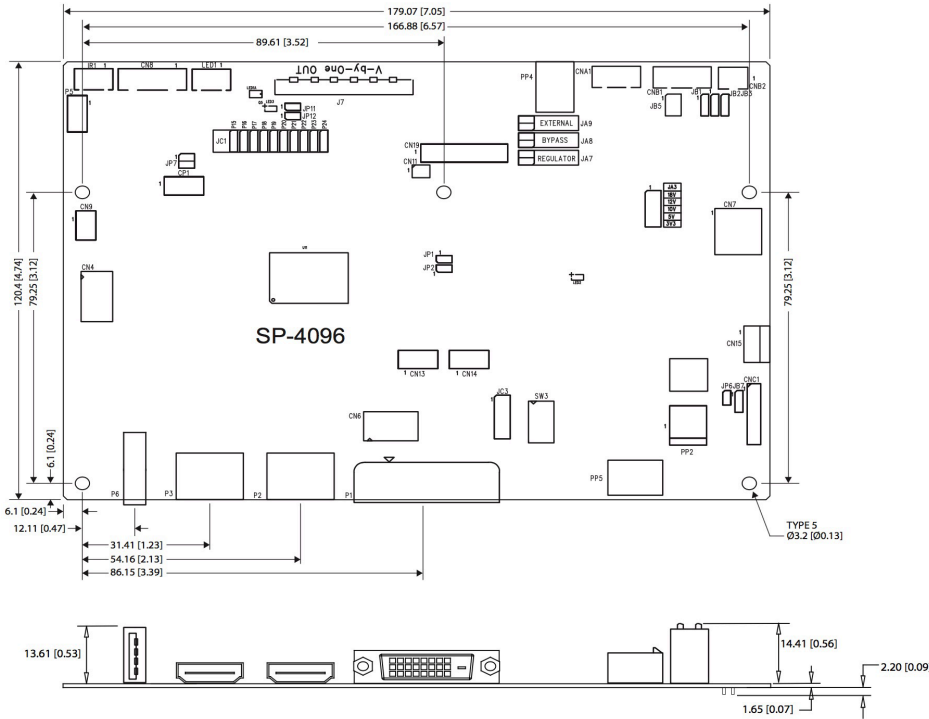
Colors:	Up to 10 bit per color, ie 1.06 billion colors
Function Display:	On Screen Display (OSD) menu
Function Controls:	External buttons, Infra-Red controls, Serial Port control
Image Scaling:	Up / Down scaling to fit input to panel resolution
Image Control:	Brightness, Contrast, Color Temperature, Gamma, Image position, Saturation, Hue, Sharpness
Input Failover:	Auto-play a message or media file if input source fails, with auto-restore.
Other Features:	System information, Scaling to fill screen and fill to aspect ratio, Programmable hotkeys, Factory reset, Ambient light sensor support, DDC-CI support
Communication:	RS-232, I2C
Input Power:	+12VDC / +24VDC ±5%, 10W (controller only)
Panel Power:	Supports 3.3V, 5V, 10V, 12V & 18V panels
Panel Signal:	V-by-One
Backlight Support:	DPMS Enable pin (3.3V or 5V), PWM
Plug & Play:	DDC 1,2/b compatible
Status Indicator:	Dual color LED support
Audio:	Digital Audio SPDIF, stereo line-out, optional DV audio board add-on

Custom Splash-screen: The SP-4096 supports custom splash- screen when powering on. This requires custom firmware.

Firmware upgrade: The SP-4096 firmware version can be upgraded via the USB port. Contact Digital View or distribution partner for details.

SVX-4096 4K, Ultra-HD LCD Controller

Mechanical Drawing



Connector Definitions

- CN4** On board internal connector for HDMI (HDMI3)
- CN6** On board internal connector for DVI
- CN7** Audio board connector
- CN8** RS-232 serial control
- CN9** Ambient light sensor connector
- CN11** SPDIF Audio output
- CN13** Audio Line in
- CN14** Audio line out
- CN15** Power connector for IE-2000
- CN19** Additional panel power output
- CNA1** Auxiliary power output
- CNB1** Backlight inverter
- CNB2** Backlight status input connector
- CNC1** OSD control
- CP1** Reserved
- IR1** Infra-red sensor connector
- J1** V-by-One panel signal output
- LED1** Power LED connector
- P1** DVI-I (single link)
- P2** HDMI 2.0 (HDMI1)
- P3** HDMI 2.0 (HDMI2)
- P5** USB1
- P6** USB2
- PP2** Power input (alternative)
- PP4** External panel power input
- PP5** 12V/24VDC input power
- SW3** Panel timing selection

Ordering Options

SVX-4096	P/N: 41761001X-3
Inverter interface board	[subject to panel model]
IR remote control	P/N: 559000106-3
OSD digital button board	Kit 67110-3
OSD membrane kit - Vertical	Kit 67134-3
OSD membrane kit - Horizontal	Kit 67135-3
AVD-1000, composite add-on	Kit 71300-3
HD-3000, 3G-SDI adaptor	P/N: 4160160XX-3
Audio Add-on board	P/N: 4169400XX-3

Drawings

- » 2D (jpg)
- » 3D (SLDPRT)

Download at:

<http://www.digitalview.com/products/sp-4096-lcd-controller>

Available Resources

- » Instruction manual
 - » Revision control documentation
 - » Firmware upgrade manual**
 - » Mechanical drawing
 - » Custom engineering: Splash screen, OSD menu, coatings, & more...
- ** Available on request

Controller Solution Generator

<http://www.digitalview.com/csg>

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The QR code above links to the product page on the website