

## SVX-3840

### 4K Ultra High-Resolution Controller

#### Key Features :

- > HDMI (1.4), DisplayPort, DVI (dual link), VGA (DB15), Component
- > LVDS + V-by-One Panel connection
- > 10-Bit, 3840 x 2160 UHD @60Hz/120Hz
- > RS-232, Ethernet Control, I2C

The SVX-3840 is a fully memory buffered multi-sync interface controller providing analog and digital input for TFT LCD panels of 3840 x 2160 resolution. It is a true 10-bit controller supporting 10 bit color depth on a 10 bit panel.

#### Panel Connectivity

3840 x 2160  
 > LVDS, V-by-One  
 > 60/120Hz

#### Input

**HDMI 1.4:** 30Hz at 3840 x 2160  
 60Hz upto 2560 x 1600

**DisplayPort:** 30Hz at 3840 x 2160  
 60Hz upto 2560 x 1600

**DVI Dual Link:** 60Hz upto 2560 x 1600

**ARGB / VGA (DB15):** 60Hz upto 1920x1080

#### Reliability

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

#### Features

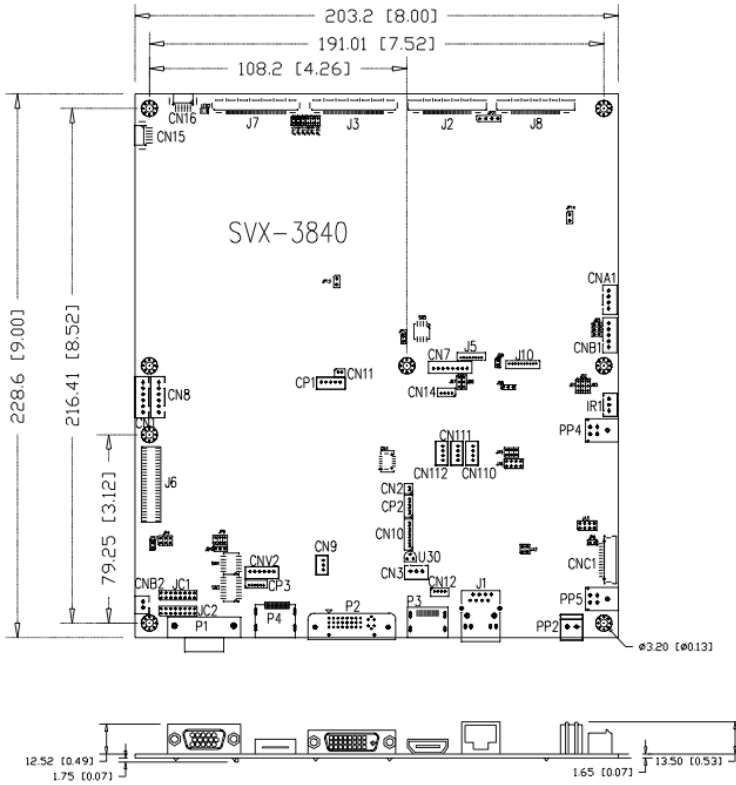
- Colors:** Up to 10 bit per color, ie 1.06 billion colors
- Functions :** On Screen Display (OSD) menu
- Function Controls:** External buttons, Infra-Red controls, Serial Port control, Ethernet Control
- Image Scaling :** Up / Down scaling to fit input to panel resolution
- Image Control :** Auto configuration, 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, Picture in Picture variable position Picture by Picture, Programmable hot keys, Ambient light sensor, Display real-time clock (option), Enable frame buffer for FRC image enhancement OSD menu transparency, DDC-CI support, CEC support on HDMI.
- Ext Communication:** I2C, RS-232, Ethernet
- Power:** +12VDC / +24VDC ±5%, 10W (controller only)
- Panel Power:** Supports 3.3V, 5V, 12V & 18V panels
- Panel Signal:** (4) channel LVDS support & V-by-One
- Inverter 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 & Analog line-out, on board stereo  
 2W amplifier

\*Specifications subject to change

# SVX-3840

## 4K Ultra High-Resolution Controller

### Mechanical Drawing



### Connector Definitions

- CN1** Second RS-232 serial control
- CN3** Temperature Sensor Connector
- CN7** Reserved for Audeio Line out
- CN8** RS-232 Serial Control
- CN9** Ambient Light Sensor Connector
- CN10** Fan & Backlight Power Monitoring
- CN11** SPDIF Audio Output
- CN14** Reserved for Speaker Out
- CN110** Reserved for Audio Line in
- CN111** Reserved for Audio Line in
- CN112** Reserved for Audio Line in
- CNA1** Auxiliary Power Output
- CNB1** Backlight inverter
- CNB2** Backlight Status Input Connector
- CNC1** OSD Control
- CNV2** Component Video Input Connector
- IR1** Infra-red Sensor Connector
- J1** Ethernet (IP-60)
- J2** LVDS Panel Signal Output 1
- J3** LVDS Panel Signal Output 2
- J5** Panel Power Output Connector
- J6** Digital Interface for SDI/Video Mux
- J7** V-by-One Panel Signal Output
- J8** V-by-One Panel Signal Output
- J10** LED Backlight Driver Connector
- P1** VGA
- P2** DVI Dual Link
- P3** HDMI 1.4
- P4** DisplayPort
- PP2** Power Input
- PP4** External Panel Power Input
- PP5** Power Input
- U50** Temperature Sensor

### Ordering Options

<b>SVX-1920v2</b>	<b>P/N 417xxxxx-3</b>
3G HD-SDI Adaptor (HD-3000)	P/N 416016040-3
Inverter Interface board	P/N 416040010-3
IR Remote Control	P/N 559000106-3
OSD Button Board	Kit 67110-3
OSD Membrane Kit	Kit 67121-3
OSD Membrane Kit	Kit 67125-3
Power Input Cable	P/N 426013800-3
Power Supply	Kit 80100-3
Composite Video Input	Add-on Board - Coming Soon

### Drawings

- > Includes 2D (jpg)
  - > 3D (SLDPRT)
- Please download at:**  
[www.digitalview.com/products/SVX-3840](http://www.digitalview.com/products/SVX-3840)

### 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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