DIGITAL VIEW®
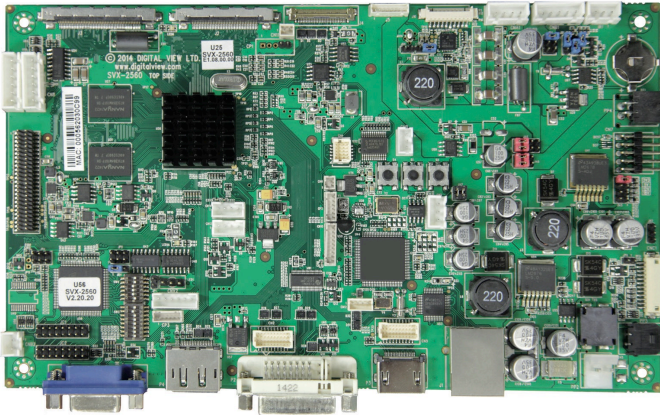
SVX-2560
2.5K High-Resolution Controller

Key Features :

> LCD TFT panels to 2560x1600, 10bit LVDS & eDP
> DVI (dual link), HDMI (1.4), DisplayPort, VGA (DB15), Component
> 4K input downscaled to Full-HD 1920x1080 due in Q1, 2015
> Ethernet & serial RS-232 control, I2C
> Monitor accessories such as fans & sensors
> Image Flip (Horizontal & Vertical)

The SVX-2560 is a full memory buffered multi-sync LCD controller providing analog and digital input for a wide range of TFT LCD panels up to 2560 and 1920x1920 resolution with either LVDS or eDP connectivity. The true 10-bit support provides 10 bit color depth on a 10 bit panel.

The extensive panel and input support together with advanced features such as Ethernet & serial RS-232 remote monitoring of fans and sensors make it ideal for many applications such as digital signage and specialist applications. Added to this are Picture in Picture (PiP) overlay functions with a selection of accessories and customization options.

Panel Connectivity

2560 x 1600	1440 x 900	1024 x 600
2560 x 1440	1280 x 800	800 x 600
1920 x 1920	1400 x 1050	800 x 480
1920 x 1200	1280 x 768	640 x 480
1920 x 1080	1366 x 768	
1680 x 1050	1280 x 1024	
1600 x 1200	1024 x 768	

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 with Picture by Picture, Programmable hot keys, Ambient light sensor, Display real-time clock, Enable frame buffer for FRC image enhancement, OSD menu transparency, DDC-CI support, CEC support on HDMI.
Image Flip:	Vertical and Horizontal
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 & Embedded DisplayPort (eDP1.2)
Inverter Support:	DPMS Enable pin (3.3V or 5V), PWM, Integrated LED Driver option
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

Input

Analog RGB:	60Hz at WUXGA, UXGA, SXGA, WXGA, XGA, SVGA, VGA With auto detect of Digital Separate Sync, Sync-On-Green & composite Sync. Auto detects VGA-WUXGA, interlaced & non-interlaced
DVI Dual Link:	60Hz support up to WQXGA 75/60Hz at SXGA, WXGA, XGA, SVGA, VGA
HDMI 1.4:	60Hz support up to WQXGA 75/60Hz at SXGA, WXGA, XGA, SVGA, VGA
DisplayPort:	60Hz support up to WQXGA 75/60Hz at SXGA, WXGA, XGA, SVGA, VGA
Video:	SD Component (YCbCr) HD Component (YPbPr)

Reliability

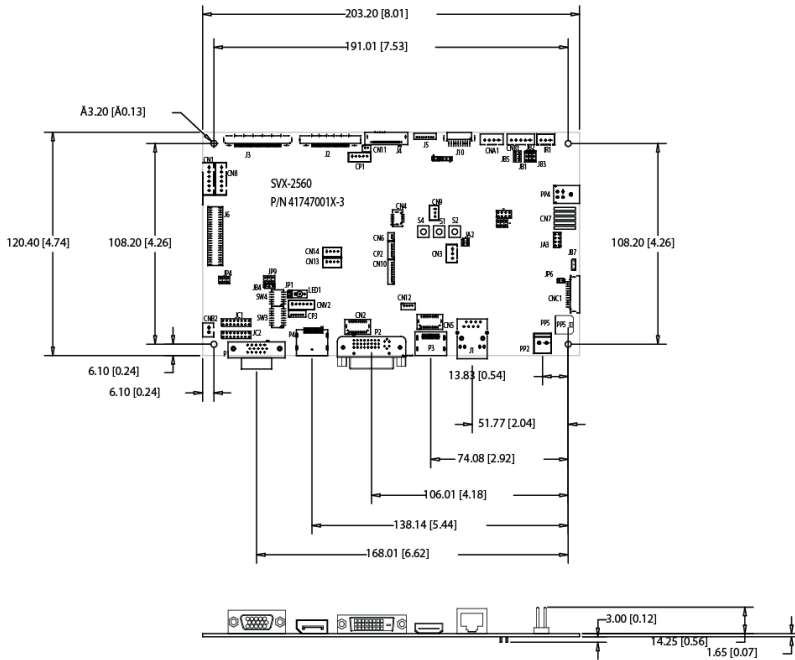Calculated Mean Time Between Failures - In excess of 100,000 hours
Warranty: 3 years

*Specifications subject to change

SVX-2560
2.5K HIGH-RESOLUTION CONTROLLER

Mechanical Drawing

Connector Definitions

CN1	Second RS-232 serial control
CN3	Temperature Sensor Connector
CN4	Panel Control Signal Conector
CN8	RS-232 Serial Control
CN10	Fan & Backlight Power Monitoring
CN11	SPDIF Audio Output
CN13	Reserved for Audio Line Out
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 Status Input Connector
CNB2	Backlight Status Input Connector
CNC1	OSD Control
CNV2	Component Video Input Connector
IR1	Infra-red Sensor Connector
J1	Light Sensor Connector
J2	LVDS Panel Signal Output 1
J3	LVDS Panel Signal Outpur 2
J4	Ethernet (IP-60)
J5	Display Port Output for Panel
J6	Digital Interface for SDI/Video Mux
J9	Panel Power output for DisplayPort Interface
J10	LED Backlight Driver Connector
P1	VGA
P2	DVI Dual Link
P3	HDMI 1.4
PP2	Power Input
U30	Temperature Sensor

Ordering Options

SVX-2560	P/N 4174700XX-3
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-2560

Available Resources

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

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