

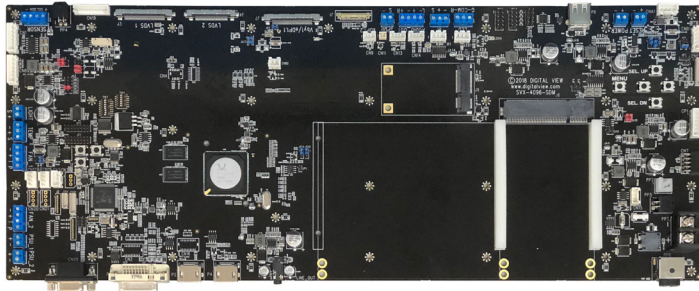
SVX-4096-SDM

4K LCD controller with Intel® SDM

The SVX-4096-SDM is an advanced controller with support for Intel® SDM cards for kiosks & digital signage displays using LCD panels up to 4096 x 2160 resolution.

Key Features:

- » Up to 4096 x 2160 input / Up to 4096 x 2160 LCD panels
- » HDMI 2.0, HDMI 1.4, DVI-I
- » V-by-One, eDP, LVDS panel connection @60Hz (120Hz with IE-2000)
- » Intel® SDM small & large slots
- » RS-232 for commands & control
- » Sensor & fan connectivity support
- » Mini PCIe expansion
- » Part number: 4176700xx-3



Panel Connectivity

V-by-One (8 channel):	up to 4096 x 2160 @60Hz *for 16 channel, 120Hz panels add IE-2000
eDP (HBR/HBR2):	up to 4096 x 2160 @60Hz
LVDS (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
Panel power:	Supports 3.3V, 5V, 10V, 12V & 18V panels

Input

HDMI 2.0:	60Hz up to 4096 x 2160 75Hz up to 1600 x 1200
HDMI 1.4:	30Hz up to 4096 x 2160 60Hz up to 2560 x 1600 75Hz up to 1600 x 1200
DVI-I Dual Link:	30Hz up to 4096 x 2160 60Hz up to 2560 x 1600 75Hz up to 1600 x 1200
Intel® SDM slots:	Small and Large Mini PCIe expansion slot

Reliability

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

Features

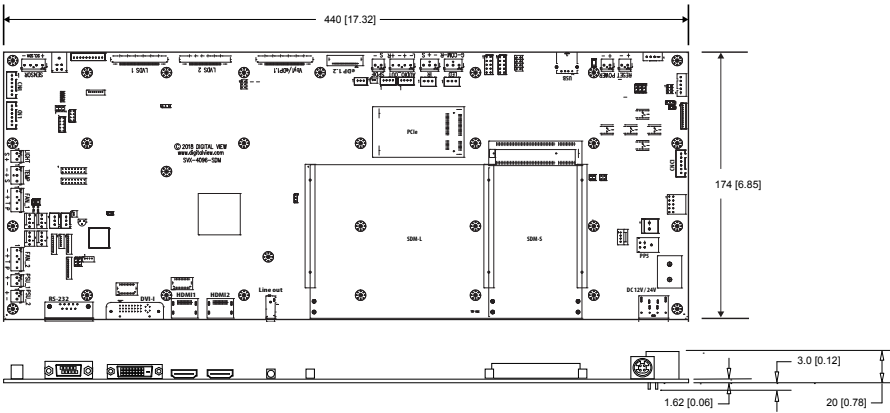
Colors:	Up to 10 bit per color, ie 1.06 billion colors
Function Display:	On Screen Display (OSD) menu
Function Controls:	External buttons, Infra-Red controls, RS-232 serial port control, On-board buttons
Image Control:	Brightness, Contrast, Color Temperature, Image position & scaling, Saturation, Hue, Sharpness
Other On-Screen:	System information, Programmable hotkeys, Factory reset, Picture in Picture (PiP), Picture by Picture (PbP), FRC image enhancement, OSD menu transparency, Audio volume
Other:	DDC-CI support Connection for fans, temp sensors, ambient brightness, I ² C Internal USB 2.0 for touch (connects to SDM)
Communication:	RS-232
Power:	+12VDC / +24VDC ±5%, 10W (controller only)
Backlight:	DPMS Enable pin (3.3V or 5V), PWM
Plug & Play:	DDC 1,2/b compatible
Status Indicator:	Dual color LED support
Audio:	Audio line-out, connector for internal audio amp.

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

Firmware upgrade: The SVX-4096-SDM firmware version can be upgraded directly from a PC running Windows 7~10 directly via the Displayport. Contact Digital View or distribution partner for details.

SVX-4096-SDM 4K, Ultra-HD LCD controller with SDM

Mechanical Drawing



Connector Definitions

CN1	Second RS-232 serial control
CN2	Internal connector for DVI
CN5	External temperature sensor
CN6	Light sensor connector
CN7	Audio board connector
CN8	RS-232 serial control
CN9	Ambient light sensor connector
CN10	Fan & backlight power monitoring
CN13	Line in
CN14	Speaker out
CN15	Power connector for IE-2000
CN16	On board internal connector for HDMI
CN19	Additional panel power output
CNA1	Auxiliary power output
CNB1	Backlight inverter
CNB2	Backlight status input connector
CNC1	Function menu buttons connector
IR1	Infra-red sensor connector
J1	eDP
J3, J4	LVDS 1 & 2
J5	Panel power output
J7	V-by-One panel signal output
LED1	Power LED connector
P1	DVI-I
P2	HDMI (1.4)
P4	HDMI (2.0)
P6	USB 2.0
PP2~7	Power inputs: 12/24VDC
Fan	Fan connection
Temp	Sensor connection
I²C	Sensor connection

Ordering Options

SVX-4096-SDM	P/N: 4176700xx-3
IE-2000, for 120Hz panels	P/N: 4175600xx-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
Audio Add-on board	P/N: 4169400xx-3

Drawings

- » 2D (jpg)
- » 3D (SLDPRT)

Download at:

<http://www.digitalview.com/products/svx-4096-sdm-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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EUROPE

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ASIA

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