

DIGITALVIEW®

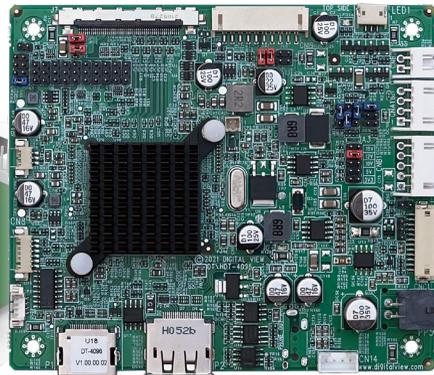
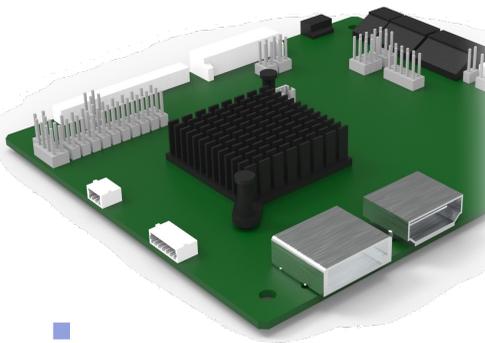


Product Guide

LCD Controllers,
Accessories &
Engineering

May 2022

www.digitalview.com



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Digital View

Since 1995 Digital View has been designing and producing LCD interface controller boards used by leading professional video display and monitor manufacturers around the globe. As 2022 progresses we will be adding more industry specific solutions to address the growing specialization of the display market.

Digital View controllers have been used in virtually every conceivable LCD display related application including...

- » Industrial Displays
- » Harsh Environment Displays
- » Defense and Security
- » Avionics, Marine and Rail
- » Healthcare Imaging Systems
- » Video Broadcast & Studios
- » Digital Signage for Retail, Advertising & Information
- » Corporate Audio Visual display systems for collaboration
- » Interactive displays and kiosks, way-finding
- » Architectural display systems



Why Digital View...

Now in our 28th year of consistent performance as the leading specialist LCD controller board developer, manufacturer and solution provider for application specific monitors and display systems. Having pioneered the development of specialty LCD interface controllers and many value added functions, Digital View provides a highly skilled, passionate engineering team with custom engineering and support services, including a wide range of accessories to complement core products.

Digital View:

- » Supports product concept, design, prototypes and mass production.
- » Supports the LCD panel suppliers that customers select.
- » Provides the engineering services & expertise to meet the needs of the display industry.
- » Supports legacy applications and long life-cycle production.
- » Supplies a cost effective sub-assembly solution so companies can focus on their goals.
- » Reduces time to market and increases ROI.
- » QC - 100% production testing with QA verification.
- » Meets application specific standards and compliance criteria.

Harsh Environments

Aviation



Digital Signage



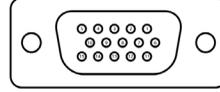
Marine



Display Acronyms

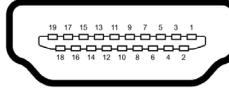
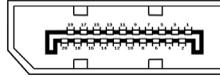
Monitors

WQXGA	2560 x 1600
WUXGA	1920 x 1200
UXGA	1600 x 1200
WXGA	1366 x 768
SXGA	1280 x 1024
XGA	1024 x 768
SVGA	800 x 600
VGA	640 x 480



HD

8K UHD	7680 x 4320
5K / UHD+	5120 x 2880
True 4K	4096 x 2160
UHD / 4K	3840 x 2160
FHD	1920 x 1080
HD	1280 x 720



TV

1080p / 1080i	1920 x 1080
720p / 720i	1280 x 720
480p / 480i	640 x 480
PAL	625 scan lines, 576 visible
NTSC	525 scan lines, 480 visible



LCD Panels Supported...



...and more

Capabilities

Digital View is known throughout the display industry for high-end reliability and an expanded features set of advanced functionality. We have a proven track record for display system related innovation and on-time and on-budget project delivery.

Engineering Services

Digital View provides display solution related engineering to customers:

- » Input signal support
- » LCD panel resolution & timing support
- » Feature enhancements
- » OSD modifications
- » System monitoring with remote access
- » Splash screen branding
- » Add-on board designs
- » Custom controller layouts
- » Complete turnkey controller development

Scalable Manufacturing

Digital View supports display projects of all sizes and phases of development, from prototype to volume production.

Quality Control & Reliability

Digital View recognizes the demanding requirements of customer's display applications and takes a holistic approach to quality from specification, design, qualified partners, parts sourcing, production, quality control and support.

Environmental Standards Compliance & Disclosures

Digital View seeks to meet the ever developing standards for environmental protection as well as supporting customers with their disclosure requirements.

Selecting an LCD Controller Board

Digital View LCD controllers are suitable for large, medium and small non-consumer display systems.

Panel Resolution

Digital View LCD controllers support from 640x480 through to 1920x1200, 2560x1600, 3840x2160 and 4096x2160 to meet the panels available on the market and the requirements of the ultimate display application. In addition to the standard display resolutions, cut or banner panel and custom resolutions are also supported. If you are looking for a controller to match a panel, a good place to start is the Controller Solution Generator at www.digitalview.com/csg

Signal Inputs

Support for signal formats, resolutions and connectors such as HDMI, DVI, Displayport, 3G-SDI & HD-SDI, Fiber, Component, VGA - ARGB, Composite, together with legacy system support such as Sync-On-Green.

Features & Functions RS-232 & Ethernet

After many years of providing LCD controllers, there is an extensive list of solutions for nearly every type of display application. Some of the functions are listed in the controller summary pages that follow, otherwise please contact your nearest Digital View office or authorized reseller as listed on www.digitalview.com/partners/resellers.html for assistance.

User Interface

Buttons, hot-buttons, mobile device apps (IOS and Android), auto-switching and remote control are just some of the display control options available. Typically, these are enabled by Digital View Accessories or via the extensive serial commands through RS-232 or LAN interface built into Digital View LCD controllers.

Harsh Environments

Heat, vibration, humidity, dust and other airborne contaminants are catered for with the Harsh Environment models. If this is not required then the General Purpose models should be suitable.

Custom Engineering

Digital View provides extensive custom engineering services
Contact us for details

Controller Solution Generator

For downloads of connection diagrams with details of cables
and settings to match a LCD panel with a controller

www.digitalview.com/csg

Customization

All standard Digital View LCD controller products can be customized either at the production stage or by Digital View engineering to suit a particular display application. Digital View also undertakes custom layout development for matching controller design to a specific customer enclosure. The following are some examples; for particular controller models there may be some technical limitations.

Splash Screen

Brand owners can have their logo shown when the display initiates

Menus & Functions

On-screen menu design and modification as well as addition or removal of functions

Menu Buttons

Standard or custom menu buttons either direct or via RS-232 or Ethernet

Menu Languages

Lock the on-screen menu to your language or have a new language added

Function Presets

Assign fixed functions to OSD and menu buttons

Panel Timing & Resolution

Set up timings and support for non-standard panel resolutions

Input Signals

Customization includes support for non-standard input signals as well as port & signal locking

Testing & Calibration

Testing, certification and calibration services are available to meet industry standards

Cables

Although standard cables meet most applications, custom cables are available

Custom layouts

Custom board layout to match the mechanical requirements of a display enclosure

Port Naming

Custom port name display

Windows, Android & IOS Apps

Extending control and functionality of the LCD controller board with software

LCD Controller Boards

Model	Photo	Panel Resolutions	Color (up to)	Panel Voltage	Input Signals	Commands & Control	Other
SVX-4096 203mm x 154mm		4096 x 2160 V-by-One eDP LVDS	10 Bit	3.3v 5v 10v 12v 18v	HDMI x3 DVI-I Dual Link x1 Displayport x1 VGA x1 on DVI-I	OSD Buttons IR Remote Ethernet RS-232	DICOM Quad PiP Sensors 12/24V DC in PWM, DPMS
SVX-4096-120 203mm x 194mm		4096 x 2160 60Hz, 120Hz V-by-One	10 Bit	3.3v 5v 10v 12v 18v	HDMI x3 DVI-I Dual Link x1 Displayport x1 VGA x1 (on DVI-I)	OSD Buttons IR Remote Ethernet RS-232	Quad PiP Sensors 12/24V DC in PWM, DPMS
DT-4096 107mm x 92mm		4096 x 2160 V-by-One eDP	10 Bit	3.3v 5v 10v 12v 18v	HDMI x1 Displayport x1	OSD Buttons IR Remote RS-232	12/24V DC in PWM, DPMS
SVX-1920-PRO 179mm x 120mm		up to 1920 x 1200 LVDS	10 Bit	3.3v 5v 10v 12v 18v	HDMI x1 Displayport x1 DVI-D x1 VGA x 1 3G-SDI option	OSD Buttons IR Remote Ethernet option RS-232	PIP, PbP Image rotate 12/24V DC In PWM, Analog
SP-1920v2 179mm x 120mm Due Q3 2022		up to 1920 x 1200 LVDS	10 Bit	3.3v 5v 10v 12v 18v	HDMI x2 DVI-D x1 / VGA x1 Component x1 Composite x1 USB for failover	OSD Buttons IR Remote RS-232	Input failover Image rotate 12/24V DC In PWM, DPMS
ALT-1920 108mm x 92mm		up to 1920 x 1200 LVDS	8 Bit	3.3v 5v 12v 18v	HDMI x1 Displayport x1 VGA x1	OSD Buttons IR Remote RS-232	12/24V DC In PWM, DPMS
DT-1920 Family		up to 1920 x 1200 LVDS	8 Bit	3.3v 5v 12v	HDMI Displayport VGA	OSD Buttons IR Remote RS-232	12V DC Input PWM, DPMS
ALR-1400v2 108mm x 92mm		up to 1440 x 900 LVDS, TTL option	8 Bit	3.3v 5v 12v 18v	DVI-D x1 VGA x1	OSD Buttons IR Remote RS-232	12/24V DC In PWM, DPMS
Model	Photo	Panel Resolutions	Color (up to)	Panel Voltage	Input Signals	Commands & Control	Other
MIP-1000 65mm x 64mm		Up to 2160x3840 MIPI DSI	8 Bit	1.8v 3.3v 5.8v	HDMI	OSD Buttons IR Remote Mini PCIe slot RS-232 (serial) USB	5V DC Input PWM backlight

Accessories are on pages 48 to 51

Accessories include panel cables, OSD buttons, add-on boards and more

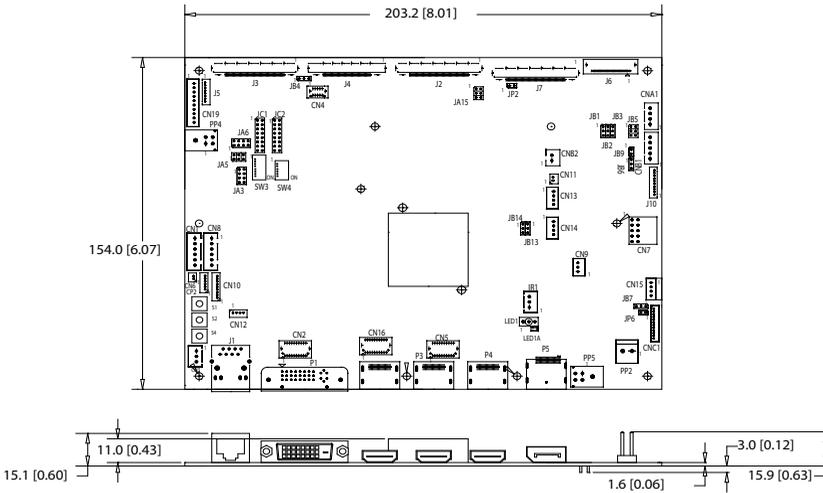
Harsh Environment LCD Controller Boards

Model	Photo	Panel Resolutions	Color (up to)	Panel Voltage	Input Signals	Command & Control	Other
HX-4096 203mm x 154mm		up to 4096 x 2160 V-by-One eDP LVDS	10 Bit	3.3V 5V 10V 12V 18V	HDMI x3 DVI-Dual Link x1 Displayport x1 VGA x1 (on DVI-I)	OSD Buttons IR Remote Ethernet RS-232	DICOM Quad input Sensors 12/24V DC in PWM, DPMS
HDT-4096 107mm x 92mm		4096 x 2160 V-by-One eDP	10 Bit	3.3V 5V 10V 12V 18V	HDMI x1 Displayport x1	OSD Buttons IR Remote RS-232	12/24V DC in PWM, DPMS
HX-2560-SDI 127mm x 102mm		up to 2560 x 1600 LVDS	10 Bit	3.3V 5V 10V 12V 18V	HDMI x 2 Displayport x 1 VGA x 1 3G/HD-SDI x 1	OSD Buttons IR Remote RS-232	PIP, PbP Image rotate 12/24V DC In PWM, Analog
HX-1920-PRO 179mm x 120mm		up to 1920 x 1200 LVDS	10 Bit	3.3V 5V 10V 12V 18V	HDMI x1 Displayport x1 DVI-D x1 VGA x1 3G-SDI option	OSD Buttons IR Remote Ethernet, option RS-232	PIP, PbP Image rotate 12/24V DC In PWM, DPMS
HLT-1920 108mm x 92mm		up to 1920 x 1200 LVDS	8 Bit	3.3V 5V 12V 18V	HDMI x1 Displayport x1 VGA x1	OSD Buttons IR Remote RS-232	12/24V DC In PWM, DPMS
HE-1400v2 108mm x 92mm		up to 1440 x 900 LVDS, TTL option	8 Bit	3.3V 5V 12V 18V	DVI-D x1 VGA x1	OSD Buttons IR Remote RS-232	12/24V DC In PWM, DPMS

Driver Boards For E Ink Panels

Model	Photo	Panel Size	Color		Input Signals	Command + Control	Other
EPM-100v2		32", 42"	Mono		USB	RS-232	12V DC Input
EPL-100		25.3", 28"	Mono, Color		USB	RS-232	12V DC Input
EPM-050		13.3"	Mono		USB	RS-232	12V DC Input

Accessories : Pg 56-59



Functions:

Display: On Screen Display (OSD)

Controls: External buttons, Infra-Red, Serial RS-232, Ethernet

Image Control: Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Sharpness, Up/Down scaling to fit input to panel resolution

Other: System information, Scaling to fill screen and fill to aspect ratio, Programmable hot-keys, Factory reset, Quad input support, Picture-in-Picture (PiP), Picture by Picture (PbP), Ambient light sensor support*, Enable frame buffer for FRC image enhancement, OSD menu transparency, DDC-CI support*

Specifications - other:

Colors: 10 bit input / 10 bit panel support

Panel Power: 3.3V, 5V, 10V, 12V, 18V

Input Power: 12/24V DC +/- 5%, 10W

Inverter Support: DPMS enable (3.3V or 5V), PWM

Plug & Play: DDC 1, 2/b compatible

Status indicator: Dual color LED support

MTBF: 100,000 hours

RoHS compliant: Yes

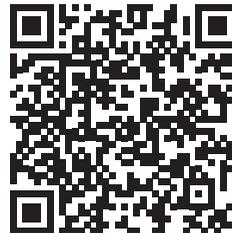
Warranty: 3 Years

Accessories:

IE-2000, for 120Hz panels	P/N 4175600XX-3
Inverter interface board	[subject to panel]
IR remote control	P/N 5590001XX-3
OSD digital button board	Kit 67110-3
OSD membrane kit - Ver	Kit 67134-3
OSD membrane kit - Hor	Kit 67135-3
Audio Add-on board	P/N 416940020-3

On the Website

www.digitalview.com/controllers/svx-4096-lcd-controller.html



SVX-4096-120

Part No : 4175900xx-3



The SVX-4096-120 is a full function controller supporting 60Hz and 120Hz LCD panels up to 4096 x 2160 resolution

Features:

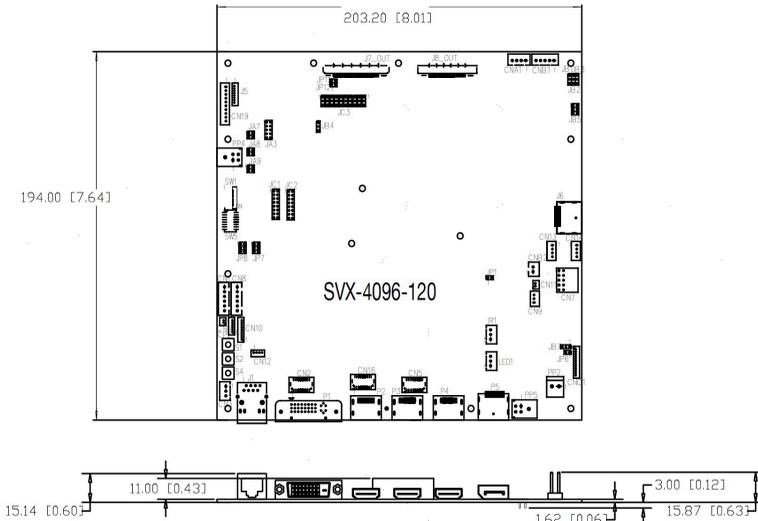
- » Up to 4096 x 2160 input, 10 bit / Up to 4096 x 2160 120Hz LCD panels, 10 bit
- » HDMI 2.0, HDMI 1.4, DisplayPort 1.2 (& pass-through output), DVI-I Dual Link
- » V-by-One panel connection @60Hz/120Hz
- » Full frame memory buffer for enhanced image control
- » Ethernet, RS-232, Infra-red remote control, External buttons

Panel Connection

V-by-One:	up to 4096 x 2160
(8 & 16 channel)	@60Hz & 120Hz
Panel resolutions	4096 x 2160, 3840 x 2160 1920 x 1200, 1920 x 1080

Input Signal

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
Displayport 1.2	60Hz up to 4096 x 2160 75Hz up to 1600 x 1200
DVI-I Dual Link (includes VGA)	30Hz up to 4096 x 2160 60Hz up to 2560 x 1600 75Hz up to 1600 x 1200



Functions:

Display: On Screen Display (OSD)

Controls: External buttons, Infra-Red, Serial RS-232, Ethernet

Image Control: Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Sharpness, Up/Down scaling to fit input to panel resolution, Image flip.

Other: System information, Scaling to fill screen and fill to aspect ratio, Programmable hot-keys, Factory reset, Quad input support, Picture-in-Picture (PiP), Picture by Picture (PbP), Ambient light sensor support*, Enable frame buffer for FRC image enhancement, OSD menu transparency, DDC-CI support*

Accessories:

Inverter interface board	[subject to panel]
IR remote control	P/N 5590001XX-3
OSD digital button board	Kit 67110-3
OSD membrane kit - Ver	Kit 67134-3
OSD membrane kit - Hor	Kit 67135-3
Audio Add-on board	P/N 416940020-3

Specifications - other:

Colors: 10 bit input / 10 bit panel support

Panel Power: 3.3V, 5V, 10V, 12V, 18V

Input Power: 12/24V DC +/- 5%, 10W

Inverter Support: DPMS enable (3.3V or 5V), PWM

Plug & Play: DDC 1, 2/b compatible

Status indicator: Dual color LED support

MTBF: 100,000 hours

RoHS compliant: Yes

Warranty: 3 Years

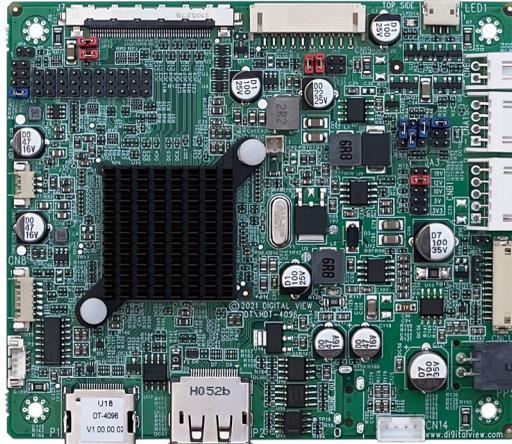
On the Website

digitalview.com/controllers/svx-4096-120-lcd-controller.html



DT-4096

Part No : 4178200xx-3



The DT-4096 controller for LCD panels up to 4096 x 2160 with HDMI & Displayport inputs, and V-by-One, eDP panels

Features:

- » Up to 4096 x 2160 input, 10 bit / Up to 4096 x 2160 LCD panels, 10 bit
- » HDMI (x1), Displayport (x1)
- » V-by-One, eDP panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

Panel Connection

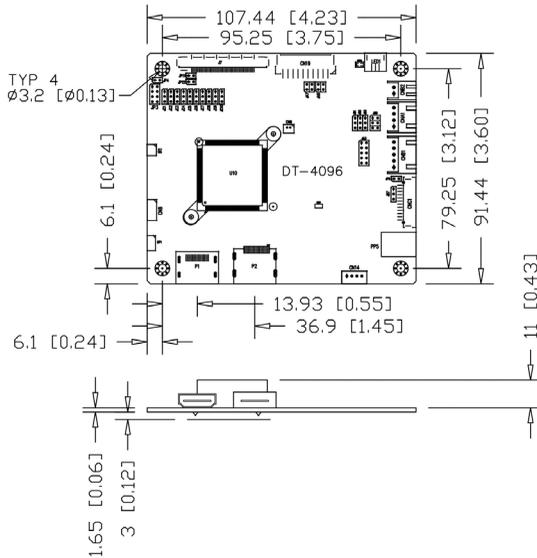
V-by-One, eDP up to 4096 x 2160 @60Hz

Panel resolutions Most standard & custom resolutions up to 4096 x 2160

Input Signal

HDMI 2.0 60Hz up to 4096 x 2160

Displayport 1.2 60Hz up to 4096 x 2160



Functions:

Display: On Screen Display (OSD)

Controls: External buttons, Infra-Red, Serial RS-232

Main: Backlight brightness, Contrast, Color Temperature, Saturation, Hue, Sharpness, Black level

Other: Input source select, Auto source seek, Display rotate, OSD position, OSD timeout, OSD menu transparency, Volume control, Programmable hotkeys, System Information, Image scaling - Up/Down scaling to fit input to panel resolution & aspect ratio. Load factory defaults.

Specifications - other:

Colors: 10 bit input / 10 bit panel support

Panel Power: 3.3V, 5V, 10V, 12V, 18V

Input Power: 12/24V DC +/- 5%, 4W

Inverter Support: DPMS enable (3.3V or 5V), PWM

Plug & Play: DDC 1, 2/b compatible

Status indicator: Dual color LED support

MTBF: over 100,000 hours

RoHS compliant: Yes

Warranty: 3 Years

On the Website

digitalview.com/controllers/dt-4096-lcd-controller.html

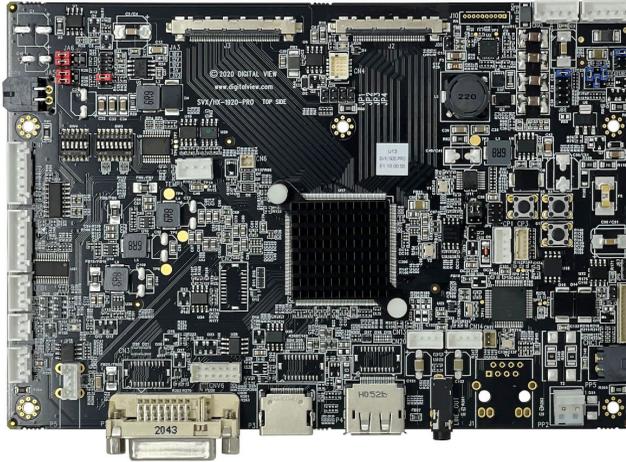
Accessories

OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface board	P/N 416040010-3
IR Remote Control	P/N 5590001XX-3



SVX-1920-PRO

Part No : 4177300xx-3



The SVX-1920-PRO replaces the SVX-1920v3 & SVH-1920v2

Features:

- » Up to 1920 x 1200 input, 10 bit / Up to 1920 x 1200 LCD panels, 10 bit
- » HDMI, Displayport, DVI-I (DVI-D & VGA)
- » LVDS panel connection @60Hz refresh rate
- » Full frame memory buffer for enhanced image control
- » RS-232 (Serial), Infra-red remote control, External buttons

Panel Connection

LVDS (2 channel) up to 1920 x 1200 @60Hz

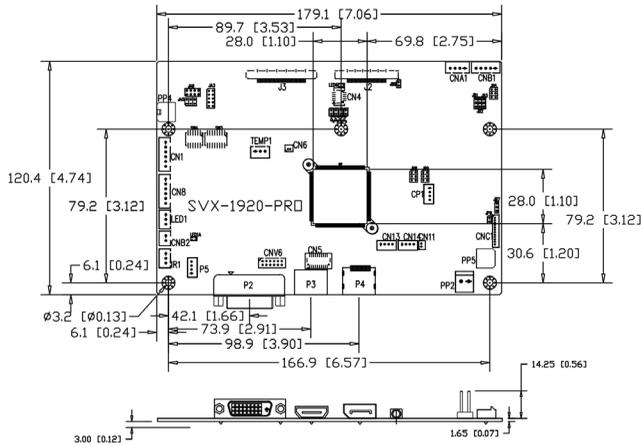
Panel resolutions Most standard & custom resolutions up to 1920 x 1200

Input Signal

HDMI 1.4 60Hz up to 1920 x 1200 1080p, 1080i, 720p, 576p, 480p

Displayport 60Hz up to 1920 x 1200 1080p, 1080i, 720p, 576p, 480p

DVI-I (ARGB) 60Hz up to 1920 x 1200 75Hz up to 1280 x 1024



Functions:

Display: On Screen Display (OSD)

Controls: External buttons, Infra-Red, Serial RS-232

Image Control: Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Black level, Gamma, Sharpness, Up/Down scaling to fit input to panel resolution

Other: System Information, OSD position, Scaling to fill screen and fill to aspect ratio, OSD timeout, Factory reset, OSD menu transparency, Horizontal & Vertical image inversion, Picture in Picture (PiP) variable position & any input combination (5 sizes), Picture by Picture, Programmable hot-keys, Serial port protocol, Ambient light sensor support, Fast input switching, Ambient temperature sensor.

Accessories

OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface Board	P/N 416040010-3
IR Remote Control	P/N 5590001XX-3

Specifications - other:

Colors: 10 bit input / 10 bit panel support

Panel Power: 3.3V, 5V, 10V, 12V, 18V

Input Power: 12/24V DC +/- 5%, 4W

Inverter Support: DPMS enable (3.3V or 5V), PWM

Plug & Play: DDC 1, 2/b compatible

Status indicator: Dual color LED support

MTBF: 100,000 hours

RoHS compliant: Yes

Warranty: 3 Years

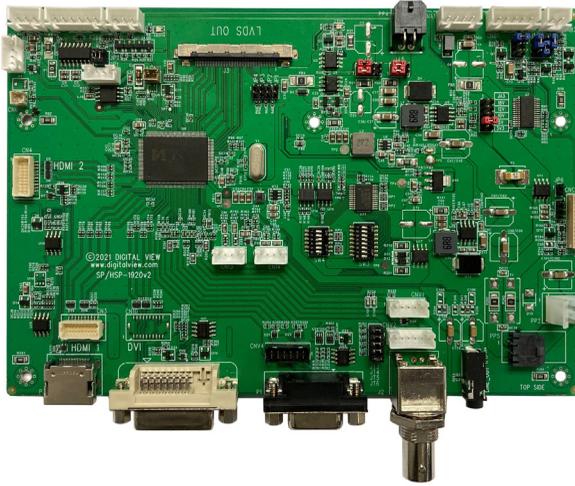
On the Website

digitalview.com/controllers/svx-1920-pro-lcd-controller.html



SP-1920v2

Part No : 4178100xx-3



The SP-1920v2 controller for LCD panels up to 1920 x 1200 with HDMI, DVI, ARGB, Component & Composite inputs

Features:

- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 10 bit
- » HDMI (x1+1), DVI-D, VGA, Composite, Component
- » LVDS panel connection @60Hz refresh rate
- » MP4 built-in media player for input source failover
- » RS-232 (Serial), Infra-red remote control, External buttons

Panel Connection

LVDS (2 channel) up to 1920 x 1200 @60Hz

Panel resolutions Most standard & custom resolutions up to 1920 x 1200

Input Signal

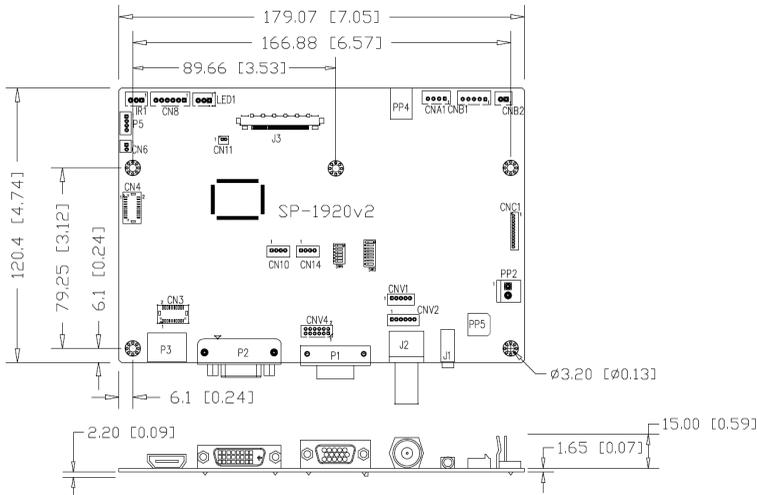
HDMI 60Hz up to 1920 x 1200

DVI 60Hz up to 1920 x 1200

ARGB (VGA) 60Hz up to 1920 x 1200

Composite PAL, NTSC

Component PAL, NTSC
480p, 576p, 720p, 1080i, 1080p



Functions:

Display: On Screen Display (OSD)

Controls: External buttons, Infra-Red, Serial RS-232

Main: Backlight brightness, Contrast, Color Temperature, Image positioning, Saturation, Hue, Sharpness, Black level

Other: Input source select, Auto source seek, Auto picture setup, Auto color gain, Manual clock & phase, OSD timeout, OSD menu transparency, Image orientation, System Information, Image scaling - Up/Down scaling to fit input to panel resolution & aspect ratio. Load factory defaults.

Media failover: MP4 from USB

Accessories

3G HD-SDI support	Kit 70700-3
OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface board	P/N 416040010-3
IR Remote Control	P/N 5590001XX-3

Specifications - other:

Colors: 10 bit input / 10 bit panel support

Panel Power: 3.3V, 5V, 10V, 12V, 18V

Input Power: 12/24V DC +/- 5%, 2.5W (controller only)

Inverter Support: DPMS enable (3.3V or 5V), PWM

Plug & Play: DDC 1, 2/b compatible

Status indicator: Dual color LED support

MTBF: over 100,000 hours

RoHS compliant: Yes

Warranty: 3 Years

On the Website

digitalview.com/controllers/sp-1920v2-lcd-controller.html

ALT-1920

Part No : 41764001x-3



The ALT-1920 is a compact controller for LCD panels up to 1920 x 1200 with HDMI, Displayport & ARGB inputs

Features:

- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 8 bit
- » HDMI, Displayport, Analog RGB (VGA)
- » LVDS panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

Panel Connection

LVDS (2 channel) up to 1920 x 1200 @60Hz

Panel resolutions Most standard & custom resolutions up to 1920 x 1200

Input Signal

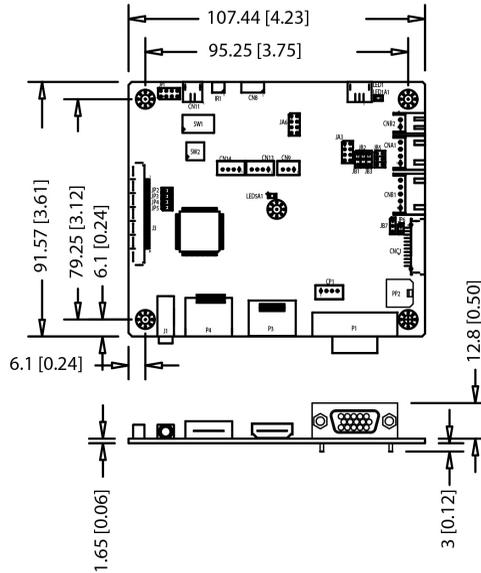
HDMI 60Hz up to 1920 x 1200

Displayport 60Hz up to 1920 x 1200

ARGB (VGA) 60Hz up to 1920 x 1200

Customization

Customization options: Panel timing; Custom input timing; Splash screen logo, ie during start-up; Custom hotkeys , menus, commands; Custom EDID; Build options to omit connectors; Full PCBA layout, conformal coatings & other hardware changes; Software utilities or Apps (IOS or Android) for RS-232 control



Functions:

- Display:** On Screen Display (OSD)
- Controls:** External buttons, Infra-Red, Serial RS-232
- Image Control:** Black level, Contrast, Sharpness, Clock, Phase, Color temperature, Image position, Gamma, Auto picture setup, Auto RGB calibration
- Other:** Backlight brightness, Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency, Select input source, Volume control, Load factory defaults

Accessories

- OSD Digital Button Board Kit 67110-3
- OSD Vertical Membrane Kit 67135-3
- OSD Horizontal Membrane Kit 67134-3
- Inverter Interface board P/N 416040010-3
- IR Remote Control P/N 5590001XX-3

Specifications - other:

- Colors:** 8 bit input / 8 bit panel support
- Panel Power:** 3.3V, 5V, 12V, 18V
- Input Power:** 12/24V DC +/- 5%, 2.5W controller only
- Inverter Support:** DPMS enable (3.3V or 5V), PWM
- Plug & Play:** DDC 1, 2/b compatible
- Status indicator:** Dual color LED support
- MTBF:** over 200,000 hours
- RoHS compliant:** Yes
- Warranty:** 3 Years

On the Website

digitalview.com/controllers/alt-1920-lcd-controller.html



DT-1920 Family



The DT-1920 family includes single input format controllers for LCD panels up to 1920 x 1200 resolution

Features:

- » Models supporting inputs: HDMI, Displayport, VGA
- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 8 bit
- » LVDS panel connection @60Hz refresh rate
- » eDP panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

Panel Connection

LVDS (2 channel) up to 1920 x 1200 @60Hz
eDP up to 1920 x 1200 @60Hz

Panel resolutions Most standard & custom resolutions up to 1920 x 1200

Input Signal

60Hz to 1920x1200

DT-1920-HDMI	HDMI
DT-1920-DP	Displayport
DT-1920-VGA	VGA
DT-1920-HDMI-EDP	HDMI / Micro HDMI

Model	Part No.	Size (L x W x H) mm
DT-1920-HDMI	4177000xx-3	91.4 x 62.7 x 11mm
DT-1920-DP	4177400xx-3	91.4 x 62.7 x 11mm
DT-1920-VGA	4177500xx-3	91.4 x 62.7 x 16.5mm
DT-1920-HDMI-EDP	4176600xx-3 micro-HDMI 4176602xx-3 standard HDMI	91.4 x 91.4 x 4.0mm 91.4 x 91.4 x 11mm

Functions:

Display: On Screen Display (OSD)
Controls: External buttons, Infra-Red, Serial RS-232
Image Control: Brightness, Contrast, Color temperature, Gamma, Sharpness
Other: Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency

Accessories

OSD Digital Button Board Kit 67110-3
 OSD Vertical Membrane Kit 67135-3
 OSD Horizontal Membrane Kit 67134-3
 Inverter Interface board P/N 416040010-3
 IR Remote Control P/N 5590001XX-3

Specifications - other:

Colors: 8 bit input / 8 bit panel support
Panel Power: 3.3V, 5V, 12V
Input Power: 12V DC +/- 5%, 10W
Inverter Support: DPMS enable (3.3V or 5V), PWM
Plug & Play: DDC 1, 2/b compatible
Status indicator: Dual color LED support
MTBF: over 100,000 hours
RoHS compliant: Yes
Warranty: 3 Years

On the Website

digitalview.com/controllers/dt-1920-hdmi-lcd-controller.html

digitalview.com/controllers/dt-1920-dp-lcd-controller.html

digitalview.com/controllers/dt-1920-vga-lcd-controller.html

digitalview.com/controllers/dt-1920-hdmi-edpt-lcd-controller.html

ALR-1400v2

Part No : 4175800xx-3



The ALR-1400v2 is a compact LCD controller supporting LCD panels up to 1440 x 900 resolution with TTL and LVDS connection

Features:

- » Up to 1366 x 768 input, 8 bit / Up to 1440 x 900 LCD panels, 8 bit
- » DVI-D, Analog RGB (VGA)
- » LVDS & TTL panel connection @60Hz refresh rate
- » RS-232 (Serial), External buttons

Panel Connection

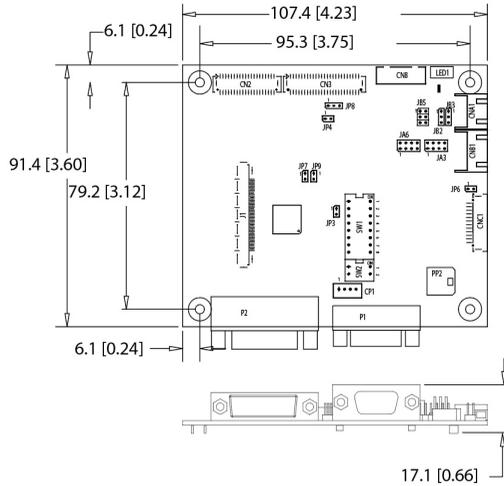
LVDS (2 channel) up to 1440 x 900 @60Hz
TTL up to 1440 x 900 @60Hz

Panel resolutions Most standard & custom resolutions up to 1440 x 900

Input Signal

DVI-D 60Hz up to 1366 x 768

ARGB (VGA) 60Hz up to 1366 x 768



Functions

- Display:** On Screen Display (OSD)
- Controls:** External buttons, Serial RS-232
- Image Control:** Brightness, Contrast, Sharpness, Clock, Phase, Color temperature, Image position, Gamma.
- Other:** Auto image adjust, Color auto adjust, Auto source seek, Input source select, Aspect ratio, OSD timeout, OSD menu position, OSD menu transparency.

Accessories

- OSD Digital Button Board Kit 67110-3
- OSD Vertical Membrane Kit 67121-3
- OSD Horizontal Membrane Kit 67134-3
- Inverter Interface Board P/N 416040010-3

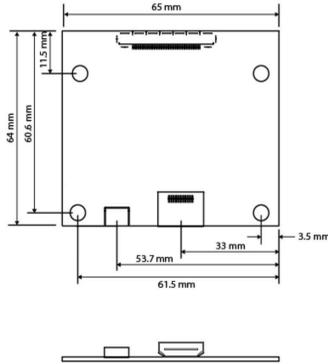
Specifications - other:

- Colors:** 8 bit input / 8 bit panel support
- Panel Power:** 3.3V, 5V, 12V, 18V
- Input Power:** 12/24V DC +/- 5%, 10W
- Inverter Support:** DPMS enable (3.3V or 5V), PWM
- Plug & Play:** DDC 1, 2/b compatible
- Status indicator:** Dual color LED support
- MTBF:** over 100,000 hours
- RoHS compliant:** Yes
- Warranty:** 3 Years

On the Website

digitalview.com/controllers/alr-1400v2-lcd-controller.html





Functions

Image Control: Brightness

Accessories

Display interface board (subject to panel model)

Specifications - other:

Colors: 8 bit input / 8 bit panel support

Panel Power: 1.8V, 3.3V, 5.8V,

Input Power: 5V DC +/- 5%

Inverter Support: PWM

RoHS compliant: Yes

Warranty: 3 Years

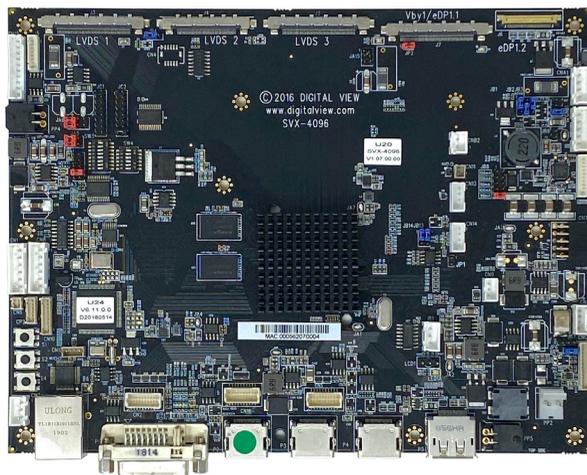
On the Website

digitalview.com/controllers/MIP-1000-lcd-controller.html



HX-4096

Part No : 4175501xx-3



The HX-4096 is an advanced controller supporting LCD & OLED panels up to 4096 x 2160 resolution

Features:

- » Up to 4096 x 2160 input, 10 bit / Up to 4096 x 2160 LCD panels, 10 bit
- » HDMI 2.0, HDMI 1.4 (x2), Displayport 1.2, DVI-I Dual Link
- » V-by-One, eDP, LVDS panel connection @60Hz/120Hz
- » Full frame memory buffer for enhanced image control
- » Ethernet, RS-232, Infra-red remote control, External buttons

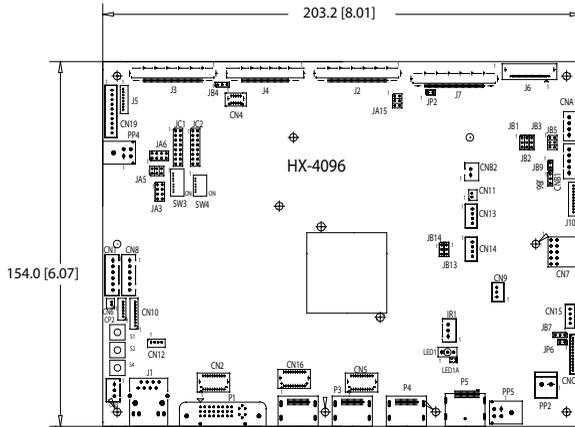
Panel Connection

V-by-One (8 channel)	up to 4096 x 2160 @60Hz add IE-2000 for 120Hz
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 1920 x 1200, 1920 x 1080
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Input Signal

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
Displayport 1.2	60Hz up to 4096 x 2160 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



Functions

Display: On Screen Display (OSD)

Controls: External buttons, Infra-Red, Serial RS-232, Ethernet

Image Control: Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Sharpness, Up/Down scaling to fit input to panel resolution

Other: System information, Scaling to fill screen and fill to aspect ratio, Programmable hot-keys, Factory reset, Quad input support, Picture in Picture (PiP), Picture by Picture (PbP), Ambient light sensor support, Enable frame buffer for FRC image enhancement, OSD menu transparency, DDC-CI support.

Accessories

IE-2000, for 120Hz panels	P/N 4175600XX-3
Inverter interface board	[subject to panel]
IR remote control	P/N 5590001XX-3
OSD digital button board	Kit 67110-3
OSD membrane kit - Ver	Kit 67134-3
OSD membrane kit - Hor	Kit 67135-3
Audio Add-on board	P/N 416940020-3

Note: Suitability for use in critical applications must be independently tested and verified by the user.

Harsh Environment Features

Ceramic capacitors

Locking connectors for vibration tolerance

Operating compliance from -20°C to 80°C

Silicone based conformal coating

Specifications - other

Colors: 10 bit input / 10 bit panel support

Panel Power: 3.3V, 5V, 10V, 12V, 18V

Input Power: 12/24V DC +/- 5%, 10W

Inverter Support: DPMS enable (3.3V or 5V), PWM

Plug & Play: DDC 1, 2/b compatible

Status indicator: Dual color LED support

MTBF: over 100,000 hours

RoHS compliant: Yes

Warranty: 3 Years

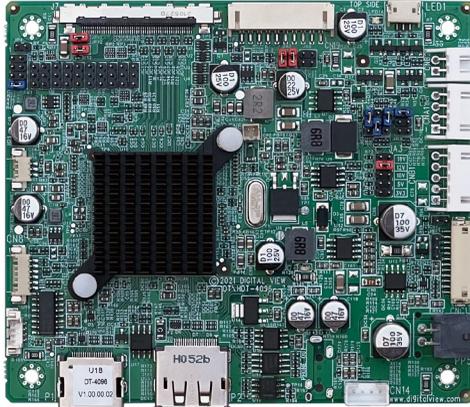
On the Website

digitalview.com/controllers/hx-4096-lcd-controller.html



HDT-4096

Part No : 4178201xx-3



The HDT-4096 controller for LCD panels up to 4096 x 2160 with HDMI, DVI-I (DVI & VGA) inputs,

Features:

- » Up to 4096 x 2160 input, 10 bit / Up to 4096 x 2160 LCD panels, 10 bit
- » HDMI (x1), Displayport (x1)
- » V-by-One, eDP panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

Panel Connection

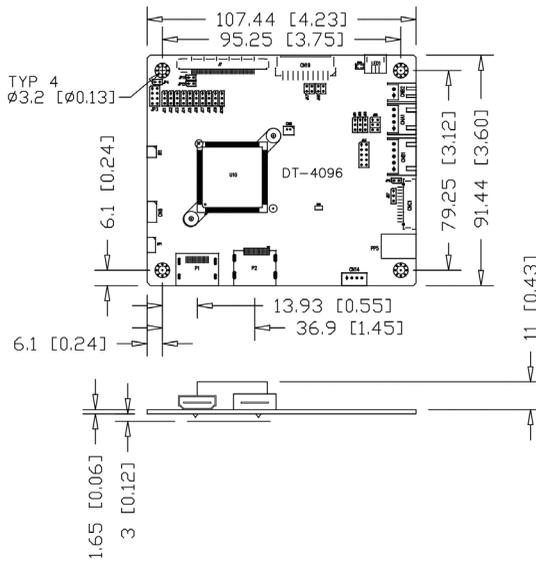
V-by-One up to 4096 x 2160 @60Hz

Panel resolutions Most standard & custom resolutions up to 4096 x 2160

Input Signal

HDMI 2.0 60Hz up to 4096 x 2160

Displayport 60Hz up to 1920 x 1200



Functions:

- Display:** On Screen Display (OSD)
- Controls:** External buttons, Infra-Red, Serial RS-232
- Main:** Backlight brightness, Contrast, Color Temperature, Saturation, Hue, Sharpness, Black level
- Other:** Input source select, Auto source seek, Display rotate, OSD position, OSD timeout, OSD menu transparency, Volume control, Programmable hotkeys, System Information, Image scaling - Up/Down scaling to fit input to panel resolution & aspect ratio. Load factory defaults.

Conformal coating & Extended temperature tolerance.

Accessories

IE-2000 for 120Hz panels	41775600xx-3
OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface board	P/N 416040010-3
IR Remote Control	P/N 5590001XX-3

Note: Suitability for use in critical applications must be independently tested and verified by the user.

Specifications - other:

- Colors:** 10 bit input / 10 bit panel support
- Panel Power:** 3.3V, 5V, 10V, 12V, 18V
- Input Power:** 12/24V DC +/- 5%, 4W
- Inverter Support:** DPMS enable (3.3V or 5V), PWM
- Plug & Play:** DDC 1, 2/b compatible
- Status indicator:** Dual color LED support
- MTBF:** over 100,000 hours
- RoHS compliant:** Yes
- Warranty:** 3 Years

On the Website

digitalview.com/controllers/hdt-4096-lcd-controller.html



HX-2560-SDI

Part No : 4178000xx-3



The HX-2560-SDI compact high resolution controller board with headers & SDI

Features:

- » Up to 2560 x 1600 input, 10 bit / Up to 2560 x 1600 LCD panels, 10 bit
- » HDMI x 2, Displayport, Analog RGB (VGA), HD/SD-SDI
- » LVDS panel connection @60Hz refresh rate
- » Full frame memory buffer for enhanced image control
- » RS-232 (Serial), Infra-red remote control, External buttons

Panel Connection

LVDS (4 channel) up to 2560 x 1600 @60Hz

Panel resolutions Most standard & custom resolutions up to 1920 x 1200

Input Signal

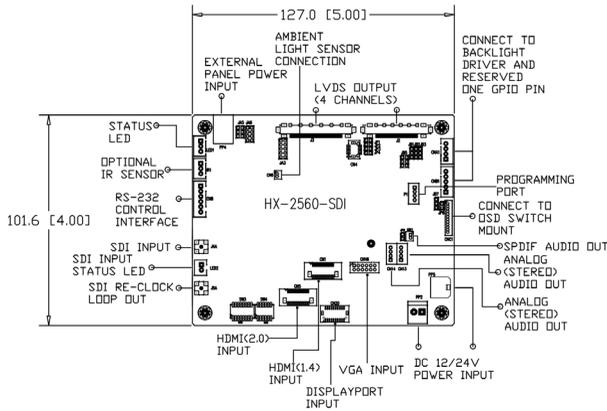
HDMI 1.4 60Hz up to 1920 x 1200
75Hz up to 1280 x 1024

DVI-D 60Hz up to 1920 x 1200
75Hz up to 1280 x 1024

ARGB (VGA) 60Hz up to 1920 x 1200
75Hz up to 1280 x 1024

Component 720p, 1080i, 1080p

3G-SDI *available as an option with HD-3000S or HD-1000P add-on board



Functions:

Display: On Screen Display (OSD)

Controls: External buttons, Infra-Red, Serial RS-232,

Image Control: Auto configuration, Brightness, Contrast, Black level, Aspect ratio, Clock, Phase, Color, Temperature, Image position, Saturation, Hue, Gamma

Other: System Information, OSD position, Scaling to fill screen and fill to aspect ratio, OSD timeout, Factory reset, Image flip, Picture in Picture variable position with 5 size selections and Picture by Picture, Programmable hot keys. Support for options such as ambient light sensor. Fast input switching. Language. Volume.

Accessories

3G-SDI Adaptor HD-3000S P/N 4160164xx-3

IR Remote Control	P/N 5590001XX-3
OSD Button Board	Kit 67110-3
OSD Membrane Kit Hor	Kit 67134-3
OSD Membrane Kit Ver	Kit 67135-3
Power Input Cable	P/N 426013800-3
Power Supply	Kit 80100-3

Note: Suitability for use in critical applications must be independently tested and verified by the user.

Harsh Environment Features

- » Ceramic capacitors
- » Locking connectors for vibration tolerance
- » Silicone based conformal coating
- » Operating compliance from -40°C to 80°C

Specifications - other:

Colors: 10 bit input / 10 bit panel support

Panel Power: 3.3V, 5V, 10V, 12V, 18V

Input Power: 12V DC +/- 5%, 4W

Inverter Support: DPMS enable (3.3V or 5V), PWM

Plug & Play: DDC 1, 2/b compatible

Status indicator: Dual color LED support

MTBF: over 100,000 hours

RoHS compliant: Yes

Warranty: 3 Years

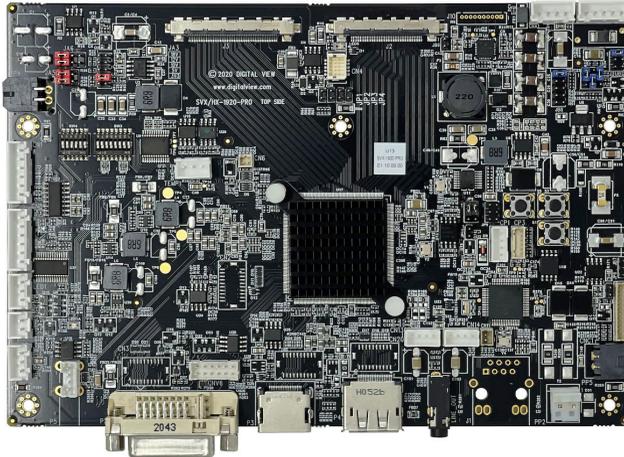
On the Website

digitalview.com/controllers/hx-2560-sdi-lcd-controller.html



HX-1920-PRO

Part No : 4177301xx-3



The HX-1920-PRO replaces the HX-1920v3 & HE-1920v2

Features:

- » Up to 1920 x 1200 input, 10 bit / Up to 1920 x 1200 LCD panels, 10 bit
- » HDMI, Displayport, DVI-I (DVI-D & VGA)
- » LVDS panel connection @60Hz refresh rate
- » Full frame memory buffer for enhanced image control
- » RS-232 (Serial), Infra-red remote control, External buttons

Panel Connection

LVDS (2 channel) up to 1920 x 1200 @60Hz

Panel resolutions Most standard & custom resolutions up to 1920 x 1200

Input Signal

HDMI 1.4 60Hz up to 1920 x 1200
1080p, 1080i, 720p,
576p, 480p

Displayport 60Hz up to 1920 x 1200
1080p, 1080i, 720p,
576p, 480p

DVI-I (ARGB) 60Hz up to 1920 x 1200
75Hz up to 1280 x 1024

HLT-1920

Part No : 4176401xx-3



The HLT-1920 is a compact controller for LCD panels up to 1920 x 1200 with HDMI, Displayport & ARGB inputs

Features:

- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 8 bit
- » HDMI, Displayport, Analog RGB (VGA)
- » LVDS panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

Panel Connection

LVDS (2 channel) up to 1920 x 1200 @60Hz

Panel resolutions Most standard & custom resolutions up to 1920 x 1200

Input Signal

HDMI 60Hz up to 1920 x 1200

Displayport 60Hz up to 1920 x 1200

ARGB (VGA) 60Hz up to 1920 x 1200

HE-1400v2

Part No : 4175801xx-3



The HE-1400v2 is a compact LCD controller supporting LCD panels up to 1440 x 900 resolution with TTL and LVDS connection

Features:

- » Up to 1366 x 768 input, 8 bit / Up to 1440 x 900 LCD panels, 8 bit
- » DVI-D, Analog RGB (VGA)
- » LVDS & TTL panel connection @60Hz refresh rate
- » RS-232 (Serial), External buttons

Panel Connection

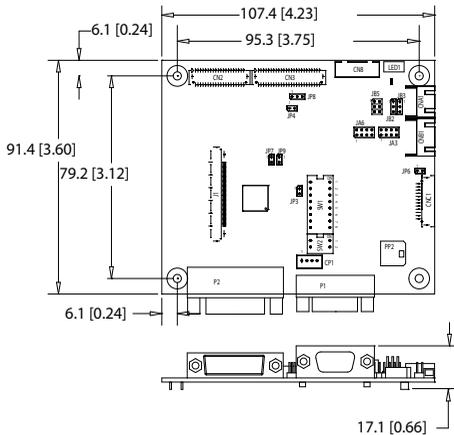
LVDS (2 channel) up to 1440 x 900 @60Hz
TTL up to 1440 x 900 @60Hz

Panel resolutions Most standard & custom resolutions up to 1440 x 900

Input Signal

DVI-D 60Hz up to 1366 x 768

ARGB (VGA) 60Hz up to 1366 x 768



Harsh Environment Features

- » Ceramic capacitors
- » Locking connectors for vibration tolerance
- » Acrylic resin conformal coating
- » Operating compliance from -40°C to 80°C

Functions:

Display: On Screen Display (OSD)

Controls: External buttons, Serial RS-232

Image Control: Brightness, Contrast, Sharpness, Clock, Phase, Color temperature, Image position, Gamma.

Other: Auto image adjust, Color auto adjust, Auto source seek, Input source select, Aspect ratio, OSD timeout, OSD menu position, OSD menu transparency.

Accessories

OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67121-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface Board	P/N 416040010-3

Specifications - other:

Colors: 8 bit input / 8 bit panel support

Panel Power: 3.3V, 5V, 12V, 18V

Input Power: 12V DC +/- 5%, 10W

Inverter Support: DPMS enable (3.3V or 5V), PWM

Plug & Play: DDC 1, 2/b compatible

Status indicator: Dual color LED support

MTBF: over 100,000 hours

RoHS compliant: Yes

Warranty: 3 Years

On the Website

digitalview.com/controllers/he-1400v2-lcd-controller.html



Note: Suitability for use in critical applications must be independently tested and verified by the user.

EPM-100v2

Part No : 4160239xx-3



The EPM-100v2 is a driver board for E Ink 32" and 42" monochrome epaper panels

The EPM-100v2 accepts bitmap (BMP) images transferred over USB in the suitable format, then writes these to the E Ink panel.

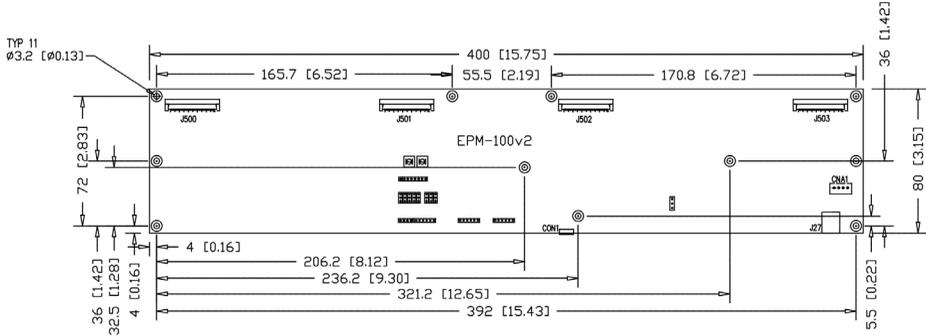
Panel Connection

E Ink 32" and 42" monochrome

Panel resolutions 32" 2560 x 1440
42" 2880 x 2160

Input Signal

USB 60Hz up to 1920 x 1200



Functions:

Controls: External buttons, Infra-Red, Serial RS-232

Control: Image rotation: 0/90/180/270 degrees, Image mirror, Image flip, Built-in temperature sensor

Accessories

USB cable, Media player, Ambient light sensor

Specifications - other:

Colors: 16 bit monochrome

Input Power: 12V DC +/- 5%, 10W

Status indicator: Dual color LED support

MTBF: over 100,000 hours

RoHS compliant: Yes

Warranty: 3 Years

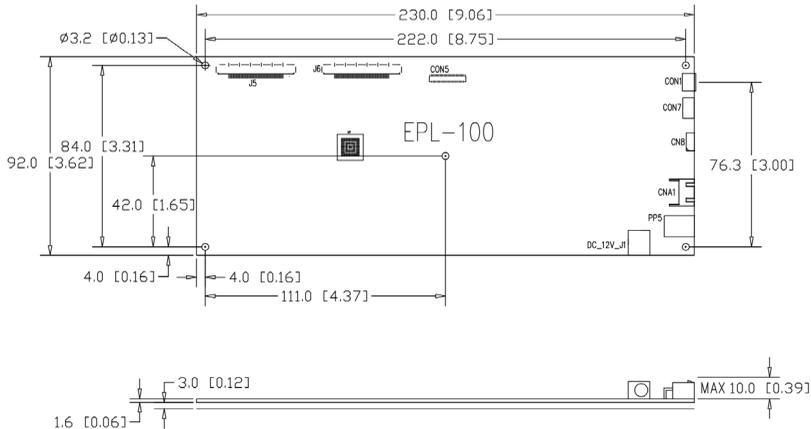
On the Website

www.digitalview.com/controllers/epm-100v2-eink-interface.html

Note: Suitability for use in critical applications must be independently tested and verified by the user.

EPL-100

Part No : 4160246xx-3



The EPL-100 is a driver board for E Ink 25.3" and 28" LVDS connection panels

The EPL-100 accepts bitmap (BMP) images transferred over USB in the suitable format, then writes these to the E Ink panel.

Panel Connection

LVDS to match the E Ink panel

Panel resolutions 25.3" 3200 x 1800
28" 3840 x 1080

Input Signal

USB 60Hz up to 1920 x 1200

Functions:

Controls: External buttons, Infra-Red, Serial RS-232

Control: Image rotation: 0/90/180/270 degrees, Image mirror, Image flip, Built-in temperature sensor

Accessories

USB cable, Media player, Ambient light sensor

Specifications - other:

Input Power: 12V DC +/- 5%, 10W

Status indicator: Dual color LED support

MTBF: over 100,000 hours

RoHS compliant: Yes

Warranty: 3 Years

Note: Suitability for use in critical applications must be independently tested and verified by the user.

EPM-050

Part No : 4160245xx-3



The EPM-050 is a driver board for E Ink 13.3” monochrome epaper panels

The EPM-050 accepts bitmap (BMP) images transferred over USB in the suitable format, then writes these to the E Ink panel.

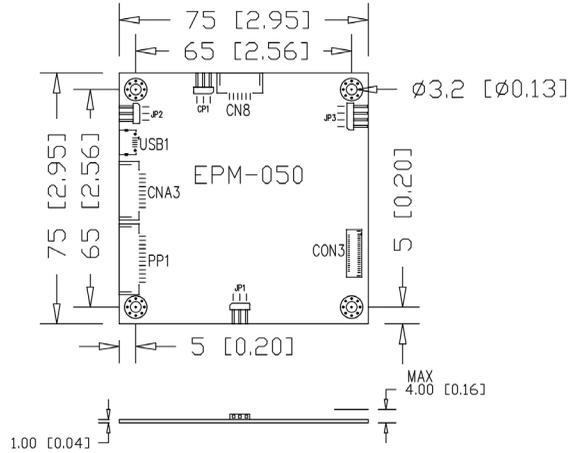
Panel Connection

E Ink 13.3 mono 1600 x 1200

Input Signal

Micro USB

Bitmap images to 16 bit gray scale.



Functions:

Display: On Screen Display (OSD) of certain functions such as image write and write complete.

Accessories

USB cable
Media player
Optical bonded coverglass
Ambient light sensor & A/D

Specifications - other:

Colors: 16 bit monochrome
Input Power: 12V DC +/- 5%
Status indicator: Dual color LED support
MTBF: over 200,000 hours
RoHS compliant: Yes
Warranty: 3 Years

On the Website

www.digitalview.com/controllers/epm-050-eink-interface.html

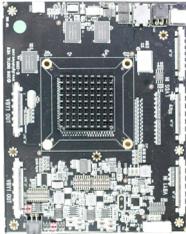


Note: Suitability for use in critical applications must be independently tested and verified by the user.

Accessories

Digital View provides a comprehensive range of accessories to complement most controllers. We provide solutions to enhance user interface, aid in remote problem solving, enable system differentiation and customization. More importantly, these accessories enable customers to build a better product solution.

Please see more information at www.digitalview.com/products/lcd-controller-accessories



120Hz Panel Interface: IE-2000

IE-2000 is designed for the SVX-4096 and adds support for 120Hz panels with V-by-One connectivity.

IE-2000 P/N 4175600xx-3

Composite Video Input Adaptor



AVD-2000 New model

AVD-1000 P/N: 4160187xx-3 | KIT-71300-3

HVD-1000 P/N: 4160188xx-3 | KIT-71301-3

The AVD-2000 is a new model scheduled for mid 2019 to replace the AVD-1000. Design is similar, board size is the same. Added capabilities include delinterlacing and faster source switching.

The AVD-1000 features two Composite video and two S-video inputs. It can also be custom assembled with four Composite inputs. There is also an HDMI output, type A connector, enabling stand-alone use. When used with a Digital View LCD controller, the OSD menu and Ethernet/RS-232 command set will provide input selection and other related functions.

The HVD-1000 is a Harsh Environment version.

SDI, HD-SDI, 3G-SDI



HD-3000S & HD-3000

Single & Dual Channel HD-SDI Adapter

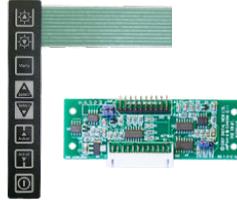
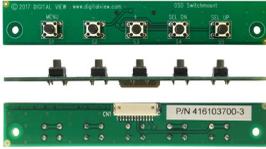
1. Supports 1.5Gbits & 3Gbits bit rate
2. Single channels input port supported
3. HD-SDI re-clock loop through output
4. HDMI (v1.3) x 1 output port
5. Stereo embedded audio support
6. On-board power on/off switch
7. AFD (Active Format Description) support
8. Fully compliant with SMPTE 292M, 259M-C, 424M, 425M.

Single Channel HD-3000S P/N: 4160164xx-3

Dual Channel HD-3000 P/N: 4160160xx-3

On-Screen Menu Buttons | Various - see website

A selection of buttons to access the on-screen menu functions. Includes both mechanical click type and membrane type.



Ethernet Interface: IP-60v2 | P/N 4160137xx-3



The IP-60 is a network device that allows you to control RS-232 enabled devices over a TCP/IP based Ethernet and the Internet using a web browser.

The IP-60 features an embedded Web Console Program (WCP) that allows developers to change command settings and make their own web pages.



Audio Add-on board | Ask for details

An easy to use accessory to add audio capability directly to your display system.



Ambient Light Sensor: Autobrite+ | KIT-70307-3

Designed to work with any Digital View controller, this board provides auto-adjustment to the controllers backlight level (value 10-100) to match the brightness coming into the sensor. Monitoring the levels every 10 seconds, the Autobrite+ communicates with the controller through the serial port while allowing parallel communication of serial commands to the controller through the board. The four available outputs allow support for additional controllers.



IR/LED Board | P/N 416015300-3 (Kit 70221-3)

The IR board is one of those small accessories that sometimes gets overlooked but plays a valuable role. This board is designed to be integrated on the inside of an enclosure with suitable access holes. The IR receiver is used for the On Screen Display (OSD) menu of Digital View display interface controllers and works with the Digital View remote control. The LED is the controller power indicator.



IR Remote Control | P/N 5590001xx-3

The Digital View Remote control unit is compatible with all DV controller products. It is provided with universal control buttons that enable the control of OSD functions plus TV and media playback on DV media products. The IR sensor and cable kit is required.

IR Control Device

This new IR control device provides a method of having single button port selections from the IR remote. For example, #1 always selects the DVI port while #4 selects the Composite 1 port.

Also available

Bluetooth Interface

Provides a smartphone interface for controller/display menu functions.

USB Switcher

A USB 'follow-me' solution so a touch-screen USB connection matches the video input source from laptops and other video sources.

Software & Apps

Windows, Android and IOS applications to enhance the functionality of monitors.

See all Accessories at: www.digitalview.com/accessories/accessories.html



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DIGITALVIEW®
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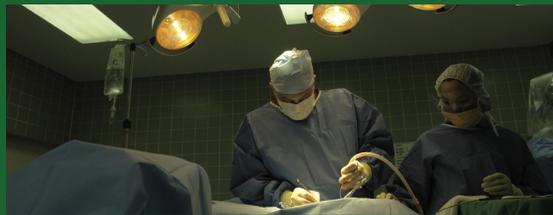
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Details subject to change without notice