Product End of Life Notice

LCD Controller Models AVP-1600, DVS-1600, SP-1600 and HE-1600 to be discontinued October 1st, 2017

Due to an EOL of the main component chip, Digital View is announcing the EOL for the following LCD Controller products (inclusive of any custom versions):

Part #	Description
4172200XX-3	AVP-1600 CONTROLLER
416990XX-3	SP-1600 CONTROLLER
4169901XX-3	HE-1600 CONTROLLER
4171400XX-3	DVS-1600 CONTROLLER

SP-1920 is the suggested replacement and are in mass production. See attached product information for full details.

Other options in current production:

ALR-1920: Compact design, DisplayPort, HDMI, and VGA inputs, LVDS, 8-bit. Features: FHD support, low cost, low latency, up and downscaling, RS-232 command and control

ALR-1400v2 Compact design, DVI-D and VGA inputs, 8-bit. Features: Low cost, low latency, up and downscaling, RS-232 command and control

Existing inventory on hand at franchised, stocking distributors will be eligible for stock rotation through October 1st, 2017.

For additional information or assistance in choosing an alternative LCD controller, please contact:

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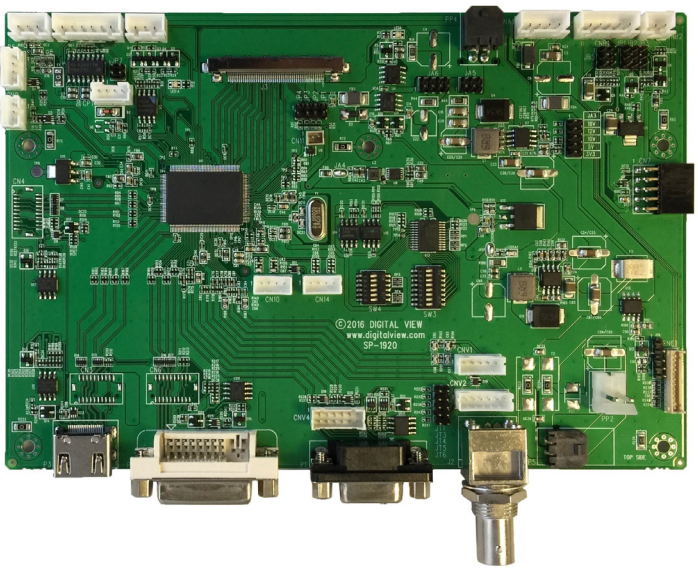

SP-1920

LCD Controller for LCD Panels up to 1920x1200 Resolution

Designed for commercial LCD display systems such as digital signage, the SP-1920 includes a basic H.264 media player. In addition the Composite input support is ideal for legacy and analog video applications.

Key Features:

- LCD support: 1920x1200, 10-Bit
- Panel connectivity: LVDS
- Inputs: HDMI, DVI, VGA, Composite
- Integrated H.264 media player / failover
- Separate power in for high power panels
- RS-232 control, IR remote control
- Part number: 4176000xx-3.

LCD Panel Support

Connectivity:	LVDS (Single/Dual channel), up to 1920 x 1080, 1920 x 1200 @60Hz
Panel power:	Supports 3.3V, 5V, 10V, 12V & 18V panels
Panel compatibility:	All major brands
Resolutions & timing:	Supports common panel resolutions and timings from 640 x 480 up to 1920 x 1200 selected by dip switch. Customization available for other LCD panel resolutions.

Input / Sources

HDMI 1.4:	60Hz up to 1920x1200 75Hz up to 1280x1024
DVI-D (single-link 1.0):	60Hz up to 1920x1200 75Hz up to 1280x1024 CVT modes
Analog RGB ('VGA'):	60Hz up to 1920x1200 75Hz up to 1280x1024 Auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA~WUXGA, interlaced & non-interlaced
Composite (BNC):	PAL, NTSC
Component (header):	PAL, NTSC 480p, 576p, 720p, 1080i, 1080p

EDID note: The EDID preferred timing data is automatically set by reference to the LCD panel resolution settings (VESA data). Custom EDID data programming is available as an OEM option.

Features

Colors:	Up to 10 bit per color, ie 1billion colors
Function Display:	On Screen Display (OSD) menu
Function Controls:	External buttons, IR remote, Serial Port commands
Image Scaling:	Up/Down scaling to fit input to panel resolution
Image Control:	Backlight brightness, Contrast, Color Temperature, Image positioning, Saturation, Hue, Sharpness, Black level.
Other Features:	Input source select, Auto source seek, Auto picture setup, Auto color goain, 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. Input source failover functions.
Power:	+12VDC / +24VDC ±5%, 2.5W (controller only)
Inverter Support:	PWM, D/A DPMS Enable pin (3.3V or 5V)
Plug & Play:	DDC 1,2/b compatible
Status Indicator:	Dual color LED support
Dimensions:	179mm x 120.4mm (7" x 4.8")

Custom Splash-screen: The SP-1920 supports a custom splash-screen when powering on. This custom firmware option.

Firmware Update: The firmware version of the SP-1920 can be updated using a USB flash key.

Reliability

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

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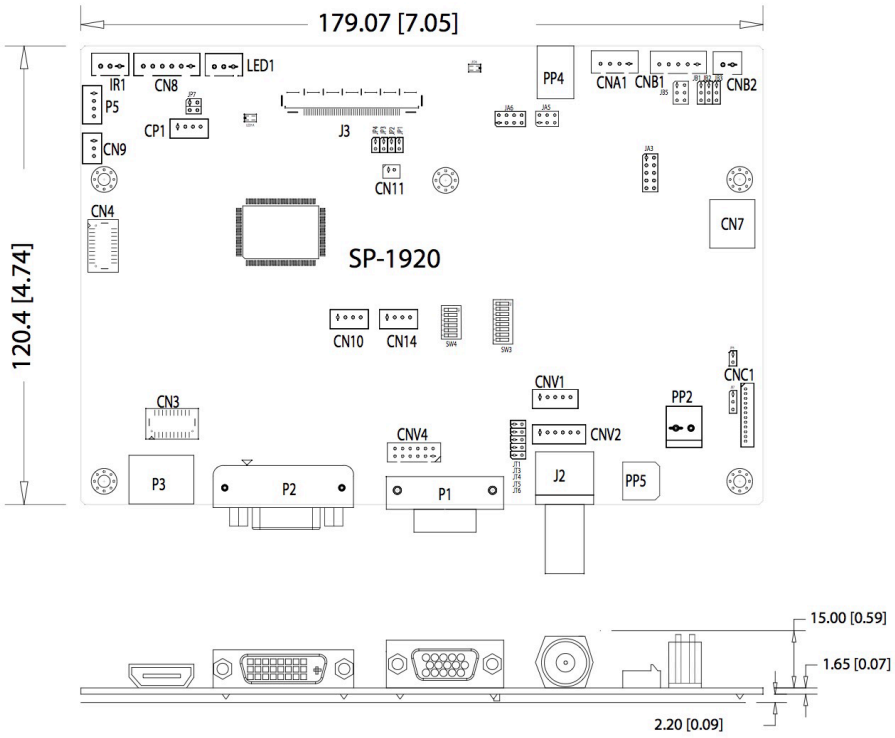
SP1920 LCD Controller for Commercial Monitors

Mechanical Drawing



Connector Definitions

CN3	Alternate HDMI 1 input connector
CN4	HDMI 2 input connector
CN7	Audio board connector
CN8	RS-232 serial control
CN9	Ambient Light sensor connector
CN10	Analog (Stereo) audio in
CN11	SPDIF audio output connector
CN14	Analog (Stereo) audio out
CNA1	Auxiliary power input
CNB1	Backlight inverter
CNB2	Backlight status input connector
CNC1	OSD controls
CNV1	Alternate Composite 1 and 2 input connector
CNV2	HD/SD Component video input connector
CNV4	Alternate VGA input connector
CP1	Reserved for factory use for programming
IR1	Infra-Red Sensor connector
J2	Composite video 1 in
J3	Panel signal for LVDS panel
LED1	Dual Color LED connector
P1	VGA analog input
P2	DVI-D input
P3	HDMI 1 connector
P5	USB input connector
PP2	Power input (alternate)
PP4	External panel power input
PP5	Power input

Ordering Options

SP-1920	**P/N: 4176000xx-3**
OSD digital button board	Kit 67110-3
OSD membrane kit - Vertical	Kit 67135-3
OSD membrane kit - Horizontal	Kit 67134-3
Inverter interface	P/N 416040010-3
IR remote control	P/N 559000106-3
Audio Add-on board	P/N 416940020-3

Drawings (pending)

- 2D (dwg)
- 3D (SLDPRT and IGS)

Download at:
http://www.digitalview.com/products/sp-1920-lcd-controller

Resources (pending)

- Instruction manual
- Revision control documentation
- Firmware upgrade manual**
- Mechanical drawings
- Custom engineering: Splash screen, OSD menu, coatings, & more...

** Available on request

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

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