



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 H.264 media failover support. 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 x2, DVI, VGA, Component, Composite x2
- » 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: 1xconnector, 1xheader	60Hz up to 1920x1200 75Hz up to 1600x1200
DVI-D (single-link 1.0): 1xconnector	60Hz up to 1920x1200 75Hz up to 1600x1200 CVT modes
Analog RGB ('VGA'): 1xconnector	60Hz up to 1920x1200 75Hz up to 1600x1200 Auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA~WUXGA, interlaced & non-interlaced
Composite: 1xBNC, 1xheader	PAL, NTSC
Component: 1xheader	PAL, NTSC 480p, 576p, 720p, 1080i, 1080p
EDID (coming soon):	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 gain, Manual clock & phase, OSD timeout, OSD menu transparency, Image orientation, System Information, 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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