



SP-1600

The Digital View SP-1600 interface controller for multi-input, general purpose OEM monitor applications.

The SP-1600 is a fully buffered, multi-sync interface controller providing direct analog and digital connection to a wide range of TFT LCD panels up to UXGA resolution. Key features include a flexible port architecture that provides inputs for DVI, dual VGA channels, Composite, S-Video and Component video. Supporting a wide range of 4:3 and 16:9 format panels, the SP-1600 provides exceptional video performance via a new generation video controller coupled with guaranteed high-reliability.

The SP-1600 is part of Digital View's "Professional Class" video controller family featuring advanced capabilities, support and custom development paths for OEM clients.

Panel Connectivity

TFT:	•1600x1200	•1280x800	•800x600
	•1366x768	•1280x768	•640x480
	•1280x1024	•1024x768	

Input

- Analog RGB:**
- 60Hz at UXGA
 - 75Hz at SXGA, WXGA, XGA, SVGA, VGA
 - 1152 x 900 @66Hz
 - 1152 x 900 @76Hz
 - 1280 x 1024 @76Hz

With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA-UXGA, interlaced & non-interlaced.

- DVI-I:**
- 60Hz at UXGA
 - 75Hz at SXGA, WXGA, XGA, SVGA, VGA

- Video:**
- NTSC/PAL/SECAM (Interlaced)
 - Composite Video • S-video • RGB Video
 - Component Video (YCbCr)

Reliability

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

Features

Colors: Up to 8 bit per color, ie 16.7 million colors.

Functions: On Screen Display (OSD) menu.

Function Controls: External buttons, Infra-Red controls, Serial Port control.

Image Scaling: Up/Down scaling to fit input to panel resolution.

Image Control: Auto configuration, Brightness, Contrast, Clock, Phase, Color temperature, Image position, Saturation, Hue, Gamma.

Other Features: Auto picture setup, Auto color gain, Auto power, OSD timeout position and transparency, Hot keys, - Auto source seek, etc.

Power Requirements: 12V / 24VDC $\pm 5\%$, 10W (controller only)

Panel Power: Supports 3.3V, 5V, 12V & 18V panels.

Panel Signal: TTL (Single pixel) & LVDS.

Inverter Support: DPMS Enable pin (3.3V or 5V)

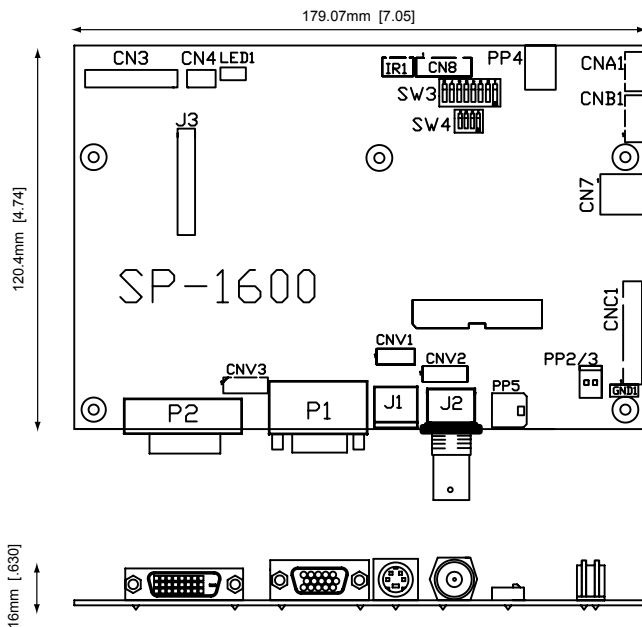
Plug & Play: DDC 1,2/b compatible

Status Indicator: Dual color LED support.

Options

2W per channel stereo amplifier, Infra-Red controller.

Custom Engineering Services - custom input timing, panel timing, splash screen, OSD Menu, conformal coatings, layouts etc.



Connector Definitions

CN3	TTL panel signal
CN4	TTL panel signal
CN7	Audio board connector
CN8	Serial control (for firmware programming or serial control use only)
CNA1	Auxiliary power output
CNB1	Backlight inverter
CNC1	OSD controls
CNV1	Alternate video in
CNV2	Component video in
CNV3	ARGB 2 input
J1	S-video in
J2	Composite video in
J3	Panel signal for LVDS panel
IR1	Infra-Red sensor connector
LED1	Dual color LED connector
P1	VGA analog input
P2	DVI-I input
PP4	External panel power input
PP5	Main power input ##
PP2/3	Power input (alternative)

Accessories*

Kit 60110-3	OSD Digital Button Board Kit
Kit 60121-3	OSD Membrane Kit
Kit 60125-3	OSD Membrane Kit
416040010-3	Inverter Interface board
416940020-3	Audio Amplifier
559000104-3	IR remote control
426013800-3	Power-Input Cable ##
426090200-3	RS-232 Cable

* See accessories page on website for details.

** Available upon request.

Available Documentation

Instruction Manual
Serial Port Programming Manual**
Firmware Upgrade Manual**
MTBF Analysis**

Mechanical Drawing

Dimensions : 179mm x 120.4mm (7" x 4.74")
Form Factor : DV standard & mounting holes.

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