DIGITAL**VIEW**®

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
- 1366x768
- 1280x1024
- 1280x768
- 1024x768

Input

Analog RGB:
- 60Hz at WUXGA
- 75Hz at SXGA, WXGA, XGA, SVGA, VGA

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

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

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, Programmable hot keys.
Dimensions: 179mm x 120.4mm (7" x 4.74")
Form Factor: DV standard & mounting holes.
Power Requirements: 12V DC, 10W (controller only)
Panel Power: Supports 3.3V, 5V & 12V panels.
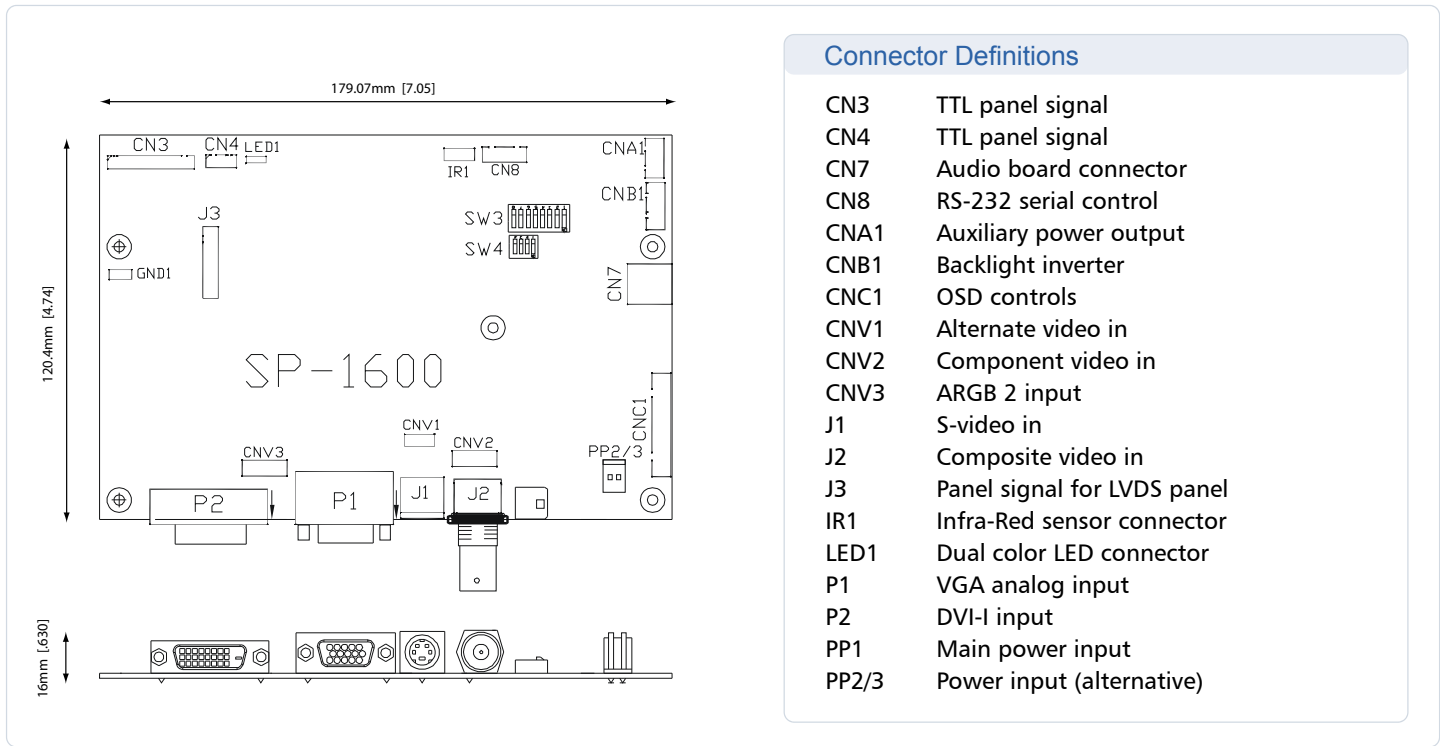**Panel Signal:** TTL (Single pixel) & LVDS.
Inverter Support: DPMS Enable pin (5V or 12V)
Plug & Play: DDC 1,2/b compatible
Status Indicator: Dual color LED support.

Reliability

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

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.

179.07mm [7.05]

120.4mm [4.74]

16mm [.630]

CN3   CN4   LED1
IR1   CN8
J3
GND1
SW3
SW4
SP-1600
CNV1
CNV3   CNV2
P2   P1   J1   J2
CNA1
CNB1
CN7
CNC1
PP2/3

Connector Definitions

CN3	TTL panel signal
CN4	TTL panel signal
CN7	Audio board connector
CN8	RS-232 serial control
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
PP1	Main power input
PP2/3	Power input (alternative)

Accessories

416940020-3	Audio Amplifier
416040010-3	Inverter Interface board
Kit 60109	OSD Button Board
Kit 60120	OSD Membrane Kit
Kit 60124	OSD Membrane Kit
5590001-00	IR remote control

*See accessories page on website for details.

Available Documentation

Instruction Manual
Serial Port Programming Manual
Firmware Upgrade Manual
MTBF Analysis

Please visit our web site for more information: www.digitalview.com

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