

The Digital View SVP-1600 interface controller for OEM monitor and packaged LCD solutions.

Panels: 1600x1200, 1280x1024, 1024x768, 800x600 TFT colour LCD.

Input: Analog UXGA, SXGA, XGA, SVGA, VGA, Video (PAL, NTSC, SECAM) & other

The SVP-1600 is a fully buffered multi-sync interface controller for providing direct analog connection for a wide range of TFT LCD panels. It is capable of driving TFT colour LCD panel up to UXGA and features full screen image expansion. The SVP-1600 is a compact high performance single board solution.

Key features of Digital View flat panel interface controllers include excellent picture quality, ease of use, extensive features and cost effective performance.



Features

Panel Connectivity - TFT:

1600x1200, 1280x1024, 1024x768, 800x600, etc.

Input signal - Computers:

60Hz at UXGA & up to 75Hz at SXGA, XGA, SVGA & VGA with auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync.

Auto detects of VGA~UXGA, interlaced & non-interlaced

Input signals - Video:

Interlaced video: NTSC, PAL/SECAM with input format of Composite video, S-video & Component video (YCrCb).

Input signals - Audio:

Optional (add-on board) stereo amplifier with volume control.

Panel power: 3.3V, 5V & 12V

Panel signal: TTL - LVDS & TMDS options (add-on board)

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

Functions display: On Screen Display (OSD) menu of functions with multiple languages.

Functions control: Buttons, Infra-red, RS-232 serial.

Image scaling:

Scale up/down a lower/higher resolution image to fit a higher/lower resolution panel, e.g. XGA up to UXGA or UXGA down to XGA, etc.

Picture in Picture:

Video (Pal/NTSC/SECAM)display overlay on PC background.

Image control: Auto setup, Brightness, Contrast, Tuning, Size, Individual RGB adjust, Colour temperature, Image position, Tint (video), Sharpness.

Other features: System information, OSD position, Keystone correction, Gamma adjust, Freeze frame, Image rotate - landscape to portrait (video only), Audio controls.

Multi-language: 7 languages option for OSD menu display.

Dimensions: 179mm x 120.4mm (7" x 4.74") approximately.

Mounting holes & layout: Digital View standard.

Connectors: Embedded & external type.

Power requirements: 12V DC.

Power saving: VESA DPMS compatible.

Power/signal protection: Fuse and power sequencing.

Inverter support: 5 & 12V, Enable pin.

Plug & Play: DDC 1, 2/b compatible

Status indicator: Dual colour LED support.

Auxiliary connector:

Power output connector & Touch add-on connector.

UXGA

SXGA

XGA

SVGA

NTSC

SECAM

PAL

Panel Compatibility Guide

| Ref | Panel type |
|---------|------------|
| Samsung | TFT |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

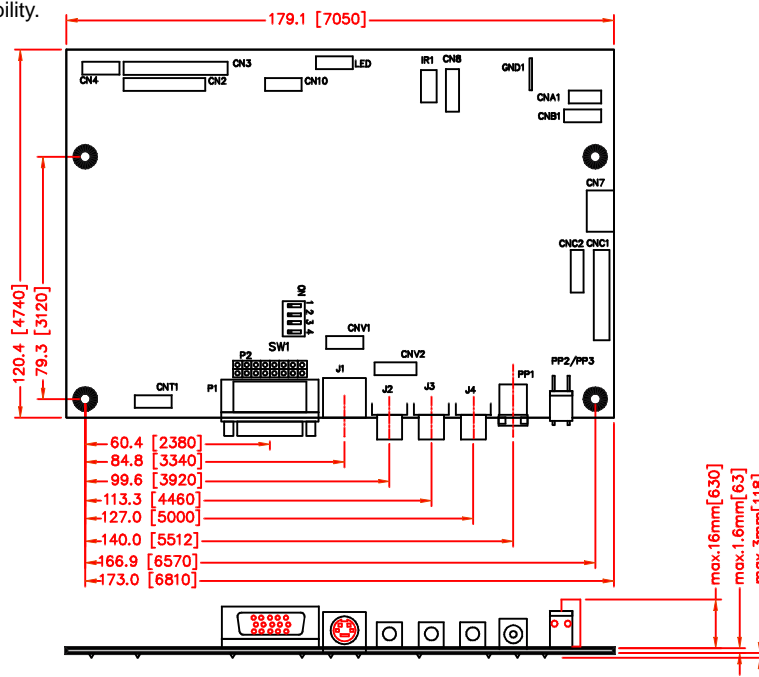
Order Information

| Item | Description |
|------|--------------------------------------|
| 1 | SVP-1600 controller |
| 2 | Panel signal cable & connector kit |
| 3 | Backlight inverter & cables kit |
| 4 | Function controls & cables kit |
| 5 | LVDS, TMDS interface options |
| 6 | Audio input & amplifier board option |
| 7 | Status LED kit |
| 8 | IR sensor kits |
| 9 | PC to controller graphics cable |
| 10 | AC/DC adapter with +12V DC output |

Support for the above panels (and more as they become available) is being introduced progressively, please check at time of placing order for specific compatibility.

Connection for up to UXGA resolution TFT type LCD panels with standard & optional LVDS/TMDS

Consistent mounting holes, connector types and general layout with other Digital View controllers



Connection for panel backlight inverters and auxiliary power for touch screens.

User control options include buttons, infra-red & RS-232.

Input connectors for both embedded and external type connection.

Connector reference

| | | | |
|------|---|-------|--|
| CN2 | Panel signal: Hirose DF11-28DP-2DSA | CNT1 | Reserve for touch controller add-on |
| CN3 | Panel signal: Hirose DF11-32DP-2DSA | CN7 | Audio board: header pin socket 5x2 right |
| CN4 | Panel signal: Hirose DF11-20DP-2DSA | CN8 | RS-232 serial: JST B6B-XH-A |
| CN10 | Panel signal: Hirose DF11-10DP-2DSA | LED1 | Dual colour status LED: 3-pin header |
| CNA1 | Auxiliary power output: JST B4B-XH-A | IR1 | IR sensor: JST B3B-XH-A |
| CNB1 | Inverter: JST B5B-XH-A | P1/P2 | 15 way VGA signal input |
| CNC1 | Function controls: JST B12B-XH-A | J1 | S-video in: mini din 4-way |
| CNC2 | Alternate function controls: Hirose DF13-9P-1.25DSA | J2 | Composite video in: RCA jack (yellow) |
| CNV1 | Alternate video in: JST B5B-PH-K | J3/J4 | Audio left & right channel: RCA jack |
| CNV2 | Component video in: JST B6B-PH-K | PP1 | Power input: 5.5mm jack for 12V supply |
| | | PP2/3 | Alternative power input |

Notes:

- Dimensions are in mm and (mil).
- PCB mounting holes connect to ground.
- PCB mounting holes are 3.2mm.
- Other mounting holes for inverter are not grounded.
- Drawing is not to scale.

ASIA

Digital View Ltd.

2201 Nanyang Plaza
57 Hung To Rd, Kwun Tong,
Kowloon, Hong Kong

Tel: (852) 2861 3615

Fax: (852) 2520 2987

Email: sales@digitalview.com.hk

USA

Digital View Inc.

18440 Technology Drive
Building 130
Morgan Hill, CA 95037
USA

Tel: (1) 408-782 7773

Fax: (1) 408-782 7883

Email: sales@digitalview.com

EUROPE

Digital View Ltd.

Millennium Studios,
5 Elstree Way, Borehamwood,
Herts, WD6 1SF, England

Tel: (44) (0)181-236 1112

Fax: (44) (0)181-236 1116

Email: sales@digitalview.co.uk

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