Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
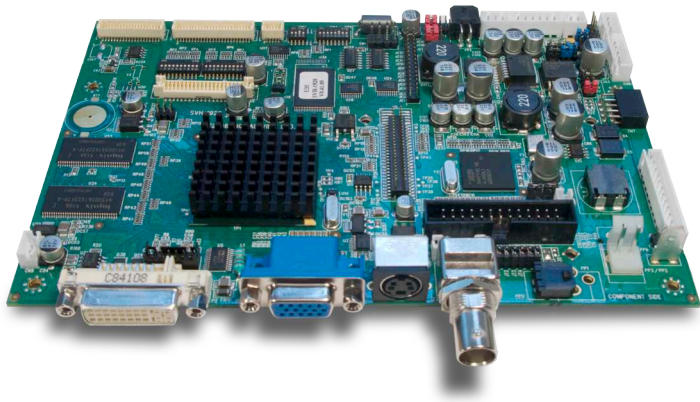
# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

# SVH-1920
## HD LCD Controller Board

**Key Features :**

| | |
|---|---|
| > 8-Bit, 1920 x 1200 | > DVI, VGA, Video |
| > Multiple Signal Inputs | > PAL, NTSC, SECAM Support |

The SVH-1920 is a fully buffered mult-sync interface controller for providing analog and digital connection for a wide range of TFT LCD panels up to WUXGA resolution. Featuring full screen image expansion of lower resolutions, image flip and invert functions and onscreen PIP functions, the SVH-1920 also supports an optional High-Definition Serial Digital Interface (HD-SDI) adaptor for professional and broadcast video applications.

## Panel Connectivity

| | | |
|---|---|---|
| 1920 x 1200 | 1366 x 768 | 800 x 480 |
| 1920 x 1080 | 1280 x 1024 | 800 x 600 |
| 1680 x 1050 | 1280 x 800 | 640 x 480 |
| 1600 x 1200 | 1280 x 768 | |
| 1440 x 900 | 1024 x 768 | |

## Input

**Analog RGB** — 60Hz at WUXGA, UXGA
75Hz at SXGA, WXGA, XGA, SVGA, VGA

**DVI-D** — With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync.
Auto detects VGAWUXGA, interlaced & non-interlaced

**Video** — 60Hz at WUXGA
60Hz at UXGA
75Hz at SXGA, WXGA, XGA, SVGA, VGA

NTSC / PAL / SECAM (Interlaced)
Composite Video S-video
HD / SD Component

## Options

HD-SDI Daughter board, Infra-Red Remote handset, 2W per channel Audio Amplifier.

## 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 format |
| **Image Control :** | Auto configuration, Brightness, Contrast, Clock, Phase, Color temperature, Image position, Saturation, Hue, Gamma. |
| **Other Features :** | System Information, OSD position, Scaling to fill screen and fill to aspect ratio, OSD timeout, Factory reset, OSD menu transparency, Horizontal & Vertical image inversion, Picture in Picture - variable position, any input combination (3 sizes), Programmable hot keys, Serial port protocol, Ambient light sensor. |
| **Power Requirements :** | +12VDC / +24VDC ±5%,10W (controller only) |
| **Panel Power :** | Supports 3.3V, 5V, 12V & 18V panels. |
| **Panel Signal :** | Dual channel TTL & LVDS support. |
| **Inverter Support :** | DPMS Enable pin (3.3V or 5V) |
| **Plug & Play :** | DDC 1,2/b compatible |
| **Status Indicator :** | Dual Color LED support. |

# SVH-1920

## High Resolution LCD Controller Board

### Drawing



179.1mm [7.05]

120.4mm [4.74]

SVH-1920

16mm [.630]

### Connector Definitions

| | |
|---|---|
| **CN2** | TTL Panel Signal |
| **CN3** | TTL Panel Signal |
| **CN4** | TTL Panel Signal |
| **CN5** | Alternate HDMI connector |
| **CN7** | Audio board connector |
| **CN8** | RS-232 serial control |
| **CN9** | Ambient light sensor connector |
| **CNA1** | Auxiliary power output |
| **CNA2** | Auxiliary +5VDC output |
| **CNB1** | Backlight inverter |
| **CNC1** | OSD controls |
| **CNV1** | Alternate Video-In |
| **CNV2** | Component Video-In |
| **CNV5** | Auxiliary Video-In |
| **J1** | S-Video In |
| **J2** | Composite Video-In |
| **J3** | Panel Signal for LVDS Panel |
| **J4** | HD-SDI adaptor board interface |
| **IR1** | Infra-Red sensor connector |
| **LED1** | Dual color LED connector |
| **P1** | VGA Analog input |
| **P2** | DVI-D input |
| **PP2/PP3** | Power input (Alternate) |
| **PP4** | External panel power input |
| **PP5** | Power input |

### Ordering Options

| **SVH-1920 Controller Board** | **Part No: 4169600xx-3** |
|---|---|
| OSD Digital Button Board | Kit 60110-3 |
| OSD Vertical Membrane | Kit 60121-3 |
| OSD Horizontal Membrane | Kit 60125-3 |
| Inverter Interface Board | P/N 416040010-3 |
| Audio Amplifier | P/N 416940020-3 |
| IR Remote Control | P/N 559000106-3 |

**HD-SDI Adaptors :**

| | |
|---|---|
| Single Channel (HD-1000) | P/N 4160134xx-3 |
| Dual Channel (HD-2000) | P/N 4160133xx-3 |

### 3D Drawings (SLDPRT)

**Save time and effort for your system volumetric analysis design.** Inc jpg file previews.

Please download at www.digitalview.com/products/svh-1920-lcd-controller