



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!



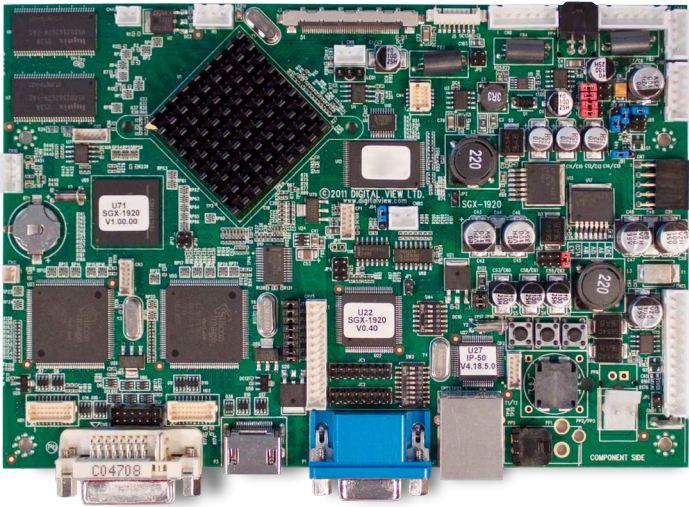
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SGX-1920

High Definition LCD Controller Board

Key Features :

- > 10-Bit, 1920 x 1200
- > Dual Digital inputs
- > RS-232 Ethernet Command Control
- > Picture in Picture

The SGX-1920 is a fully buffered multi-sync interface controller for providing analog and digital connection for a wide range of TFT LCD panels up to WUXGA resolution. It is a true 10-bit board that gives 10-bit color deep on a 10-bit panel. The board supports two digital video input and featuring full screen image expansion, on screen PIP, image marker and supports an option 3G HD-SDI converter board (HD-3000/HD-3000S) through digital input port for professional and broadcast video applications.

Panel Connectivity

1920 x 1200	1366 x 768	800 x 600
1920 x 1080	1280 x 1024	800 x 480
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 With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA-WUXGA, interlaced & non-interlaced
DVI-D / HDMI:	60Hz at WUXGA, UXGA 75Hz at SXGA, WXGA, XGA, SVGA, VGA 480p, 576p, 720p, 1080i, 1080p
Video:	NTSC /PAL/SECAM (Interlaced) Composite Video, S-video HD/SD Component (YPbPr / CbCr)

Reliability

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

Custom Engineering Services

Custom input timing, panel timing, splash screen, OSD Menu, conformal coatings, layouts etc

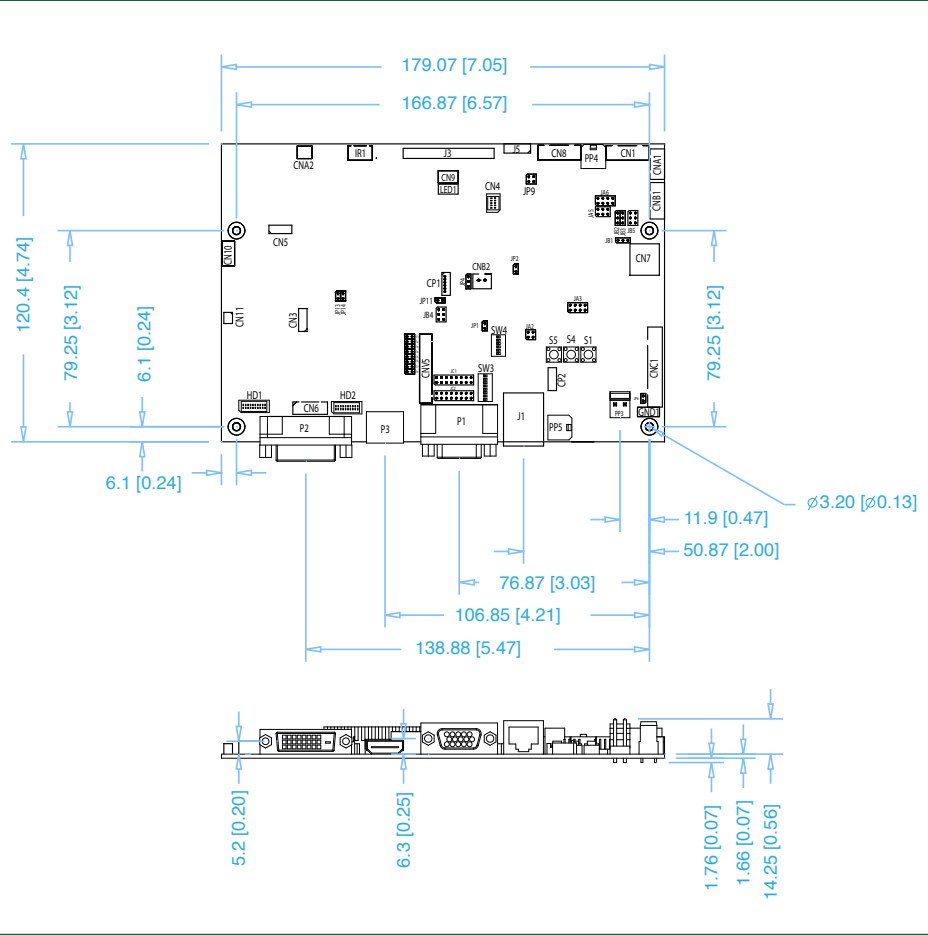
Features

Colors:	Up to 10 bit per color, ie 1.06 Billion colors.
Functions :	On Screen Display (OSD) menu.
Function Controls:	External buttons, Infra-Red controls, Serial Port control, Ethernet 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, Picture in Picture - variable position with 18 sizes selection and Picture by Picture, Programmable hot keys, Ambient light sensor, Display real time clock.
Power :	+12VDC / +24VDC ±5%,10W
Panel Power :	Supports 3.3V, 5V, 12V & 18V panels.
Panel Signal :	Dual channel LVDS support.
Inverter Support :	DPMS Enable pin (3.3V or 5V)
Plug & Play :	DDC 1,2/b compatible
Status Indicator :	Dual Color LED support.

SGX-1920

High Definition LCD Controller Board

Mechanical Drawing



Connector Definitions

- CN1** Second RS-232 serial control
- CN3** Reserved for factory use
- CN4** Panel control signal connector
- CN5** Reserved for factory use
- CN6** No function
- CN7** Audio board connector
- CN8** RS-232 serial control
- CN9** Ambient light sensor connector
- CN10** HDMI audio (Stereo) output
- CN11** SPDIF Audio output
- CP1** Reserved for factory use
- CP2** Reserved for factory use
- CNA1** Auxiliary power output
- CNA2** Auxiliary +5VDC output
- CNB1** Backlight inverter
- CNB2** Backlight status input connector
- CNC1** OSD controls
- CNV5** Auxiliary video input
- HD1** Auxiliary digital input connector – HD1
- HD2** Auxiliary digital input connector – HD2
- J1** Ethernet for network connection
- J3** Panel signal for LVDS panel
- J5** External panel power output
- IR1** Infra-Red sensor connector
- LED1** Dual color LED connector
- P1** VGA analog input
- P2** DVI-D input
- P3** HDMI input
- PP2/PP3** Power input (alternative)
- PP4** External panel power input
- PP5** Power input

Ordering Options

SGX-1920 Controller Board	P/N 4172500xx-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

3G HD-SDI Adaptors :

Single Channel (HD-3000S)	P/N 4160164xx-3
Dual Channel (HD-3000)	P/N 4160160xx-3

3D Drawings (SLDPRT)

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

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

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