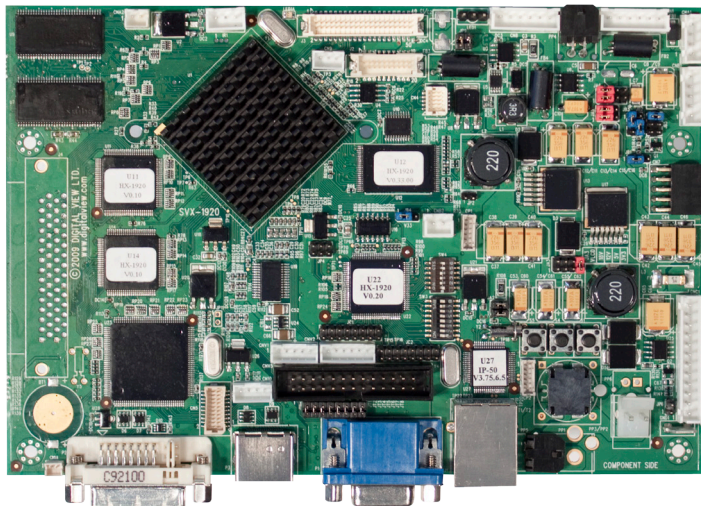




HX-1920

Harsh Environment LCD Controller Board



Key Features :

- > 10-Bit, 1920 x 1200
- > RS-232 Ethernet Control
- > HDMI, DVI, VGA Video
- > 120Hz & 3G-SDI (Option)

The HX-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 featuring full screen image expansion, on screen PIP, image marker and supports an optional 3G HD-SDI adaptor for professional and broadcast video applications. It is a part of Digital View's "Professional Class" video controller family featuring advanced capabilities, support and custom development paths for OEM clients.

Panel Connectivity

TFT :	1920x1200	1280x1024
	1920x1080	1280x768
	1680x1050	1024x768
	1600x1200	800x480
	1440x900	800x600
	1366x768	640x480

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 75Hz at SXGA, WXGA, XGA, SVGA, VGA
Video:	NTSC /PAL/SECAM (Interlaced) Composite Video, S-video SD Component (YCbCr) HD Component (YPbPr)

Options

- > 3G HD-SDI daughter board (HD-3000)
- > Infra-Red Remote handset
- > 2W Channel Audio Amplifier

Reliability

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

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.
Power :	+12VDC $\pm$ 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.

Custom Engineering Services

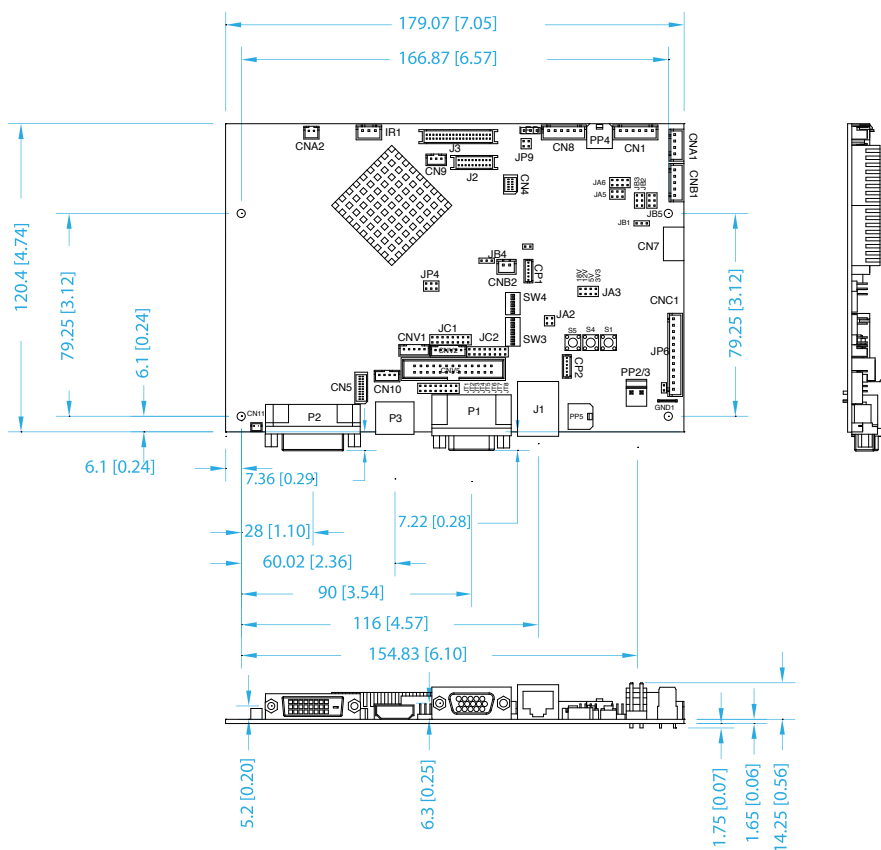
Custom input timing, panel timing, splash screen, OSD Menu, conformal coatings, layouts etc



HX-1920

Harsh Environment LCD Controller Board

Mechanical Drawing



Connector Definitions

CN1	Second RS-232 serial control
CN4	Panel control signal connector
CN5	Alternate HDMI connector
CN7	Audio board connector
CN8	RS-232 serial control
CN9	Ambient light sensor connector
CN10	HDMI audio (stereo) output
CN11	SPDIF Audio Input
CNA1	Auxiliary power output
CNA2	Auxiliary +5VDC output
CNB1	Backlight inverter
CNB2	Backlight status input connector
CNC1	OSD controls
CNV1	Composite & S-Video
CNV2	HD/SD Component video in
CNV5	Auxiliary video in
J1	Ethernet for IP-50 connection
J2	Additional Panel Power Output
J3	Panel Signal for LVDS Panel
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 (Alternate)
PP4	External panel power input
PP5	Power input

Ordering Options

P/N 4172101XX-3	HX-1920 Controller Board
P/N 416016000-3	3G HD-SDI Adaptor (HD-3000)
KIT 60110-3	OSD Button Board
KIT 60121-3	OSD Membrane Kit
KIT 60125-3	OSD Membrane Kit
P/N 416040010-3	Inverter Interface board
P/N 416940020-3	Audio Amplifier
P/N 559000106-3	IR Remote Control

3D Drawings (SLDPRT)

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

Please download at www.digitalview.com/controllers/products.php

Available Resources

- > Instruction Manual
- > Revision Control Documentation**
- > Firmware Upgrade Manual**
- > Mechanical Drawing

** Available on Request

Controller Solution Generator

A web based resource matching controllers & panels with connection diagrams for download. Please go to <http://www.digitalview.com/csg>

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