

## DT-1920-HDMI

### HDMI Input LCD Controller Board

**Key Features :**

- > LCD resolution up to 1920 x 1200, 8 bit, LVDS
- > Input signal: HDMI 1.3, up to 1920x1080, 1080p
- > Compact: 91.4mm x 62.7mm x 11mm
  
- > Multi-Panel support, dip switch select
- > Auto edid, panel matched
- > Light sensor support, 2 pin
- > Temperature sensors support, onboard & 3 pin
- > RS-232 functions
- > Audio line out
  
- > Part number: 4177000xx-3

The Digital View DT-1920 LCD controller board with single HDMI input and LVDS panel connection support for general commercial and industrial applications. Compact and highly reliable this controller board incorporates advanced features such as Digital View’s multi panel timing support, brightness & temperature sensors, auto-EDID setting and audio line-out.

The scalar incorporates a line buffer and provides low latency input to panel. The power circuitry uses ceramic capacitors for extended lifetime across all operating temperatures.

#### LCD Panel Connectivity

**LCD Panel Connection:** LVDS, up to 1920x1200, 8bit

**LCD Panel Power:** Supports 3.3V, 5V & 12V

**Backlight:** PWM brightness control

\*Option: Custom Resolution Supported

#### Video Signal Input

**HDMI 1.3:** 60Hz at WUXGA, UXGA, SXGA, WXGA, XGA, SVGA, VGA 1080p, 1080i, 720p, 576p, 480p

#### Custom Engineering Services

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

#### Reliability

Calculated Mean Time Between Failures In excess of 200,000 hours.  
Warranty: 3 years.

#### Features

**Colors supported:** Up to 3 x 8 bit providing 16.7 million colors.

**Functions :** On Screen Display (OSD) menu.

**Function Controls:** External buttons, Infra-Red controls, Serial Port RS-232 control

**Image Scaling :** Up / Down scaling to fit input to panel format.

**Image Control :** Brightness, Contrast, Sharpness, Color temperature, Gamma.

**Other Features :** OSD timeout, OSD position, OSD menu rotation, OSD transparency, OSD menu language, Factory reset.

Temperature sensors: Onboard, external  
Light sensor support for auto backlight adjustment.  
Auto EDID setting to match panel resolution

**Dimensions:** 62.7mm x 91.4mm x 11mm

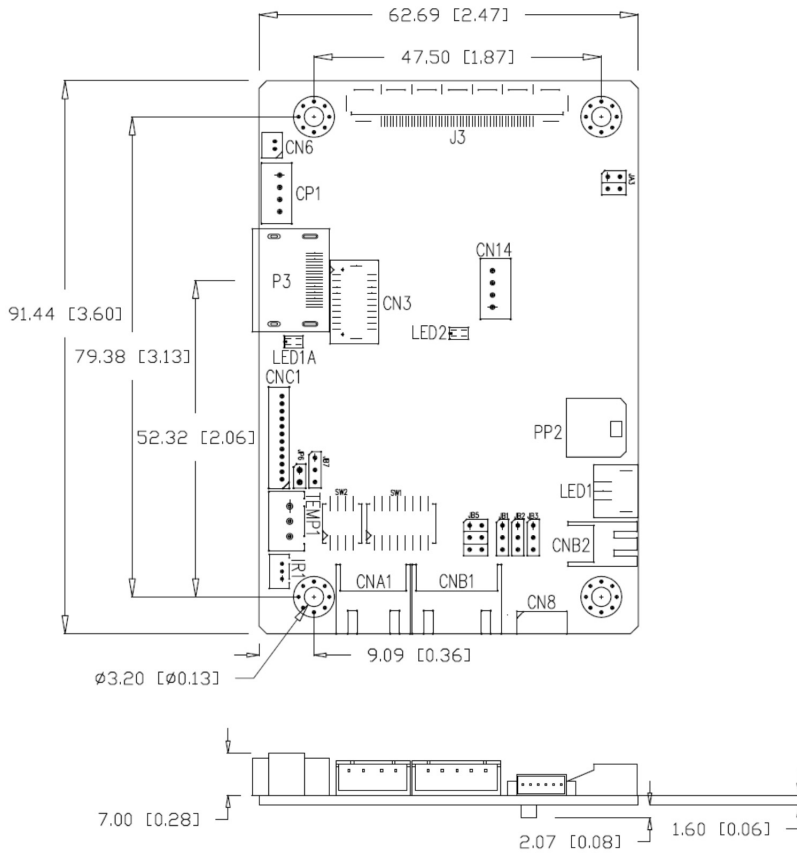
**Power:** +12VDC ±5%, 2.5W (controller only)

**Plug & Play:** DDC 1,2/b compatible

**Status Indicator:** Dual color LED support

\*Specifications subject to change

Dimensions



Connector Definitions

- CN3** Alternate HDMI signal input
- CN6** Ambient light sensor connector
- CN8** RS-232 serial control
- CN14** Audio line-out (stereo)
- CNA1** Auxiliary power output
- CNB1** Backlight inverter
- CNB2** Backlight status input
- CNC1** OSD controls
- IR1** Infra-Red sensor connector
- LED1** Dual color LED connector for controller status
- P3** HDMI signal input
- J3** LVDS panel signal
- PP2** Power input
- CN1** Audio out (stereo) for HDMI
- CN11** SPDIF audio output
- TEMP1** Temperature sensor connector

Available Resources

- > Instruction Manual
- > Revision Control Documentation\*\*
- > Firmware Upgrade Manual\*\*
- > Mechanical Drawing
- \*\* Available on Request

**Controller Solution Generator**  
<http://www.digitalview.com/csg>

Ordering Options

**DT-1920 HDMI Controller P/N: 4177000xx-3**

- OSD - 5 button board Kit 67204-3
- OSD - 8 button board Kit 67110-3
- OSD Vertical Membrane Kit 67134-3
- OSD Horizontal Membrane Kit 67135-3
- IR Remote Control P/N 559000106-3

See Accessories on the website:  
<https://digitalview.com/accessories/accessories.html>

3D Drawings (SLDPRT)

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

Please download at:  
[www.digitalview.com/products/dt-1920-hdmi-lcd-controller](http://www.digitalview.com/products/dt-1920-hdmi-lcd-controller)

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