



DT-1920-HDMI-EDPT

HDMI input for Full-HD eDP LCD panels

The DT-1920-HDMI-EDPT LCD controller is similar in functionality to the DT-1290-HDMI LCD controller - redesigned to provide connectivity for eDP interface LCD panels.

Connectivity for 8 bit LCD panels up to 1920x1200 resolution with LVDS input it provides HDMI input via a micro-HDMI connector. Both standard and custom panel and input resolutions are supported.

Key Features:

- » Up to 1920x1200 input / Up to 1920x1200 LCD panels
- » HDMI 1.4, Micro-HDMI connector (standard size as build option)
- » eDP panel connection @60Hz
- » Very low latency
- » RS-232, I2C for command & control

Part number: 4176600xx-3 (micro HDMI)
 Part number: 4176602xx-3 (standard HDMI)

Panel Connectivity

eDP Up to 1920 x 1200 @60Hz

Panel Timing: Mini-dip switch select

Panel Power: Supports 3.3V, 5V, 12V panels

Standard and custom panel resolutions are supported up to the

maximum resolution noted above.

Input

HDMI 1.4 60Hz up to 1920x1200

75Hz up to 1280x1024

Note: Uses Micro-HDMI connector (standard size is available as build option)

Features

Colors: Up to 8 bit per color

Function Display: On Screen Display (OSD) menu

Function Controls: External buttons, Infra-Red controls, Serial Port Image Scaling: Up / Down scaling to fit input to panel resolution Image Control: Brightness, Contrast, Color Temperature, Image

position, Saturation, Hue, Sharpness

Other functions: Audio volume

Communication: RS-232, I2C

Firmware upgrade: RS-232, Smart-ISP

Power: +12VDC / +24VDC ±5%, 10W (controller only)

Backlight Support: DPMS Enable pin (3.3V or 5V), PWM

Plug & Play: DDC 1,2/b compatible
Status Indicator: Dual color LED support

Audio: Stereo line-out

Size: 91.4mm x 91.4mm x 4mm

Reliability

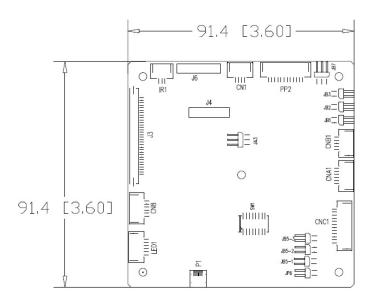
Calculated MTBF: In excess of 250,000 hours

Warranty: 3 years



DT-1920-HDMI-EDPT 4mm thick LCD controller

Drawing



Connector Definitions

CN1 Stereo audio out from HDMI CN8 RS-232 serial control

CNA1 Ambient light sensor connector

CNB1 Reserved for fan & backlight power monitoring

CNC1 SPDIF Audio output

IR1 Reserved

J3 Reserved for Line in
P1 Reserved for Speaker out
PP2 Power connector for IE-2000

Ordering Options

DT-1920-HDMI-EDPT

P/N: 4176600xx-3

Accessories - TBA

Drawings

4.0 [0.16]

- 2D (jpg)
- » 3D (SLDPRT)

Webpage at:

https://www.digitalview.com/controllers/dt-1920-hdmi-edpt-lcd-controller.html

Available Resources

- » Instruction manual
- Revision control documentation
- » Firmware upgrade manual**
- » Mechanical drawing
- » Custom engineering: Splash screen, OSD menu, coatings, & more...
- ** Available on request

Controller Solution Generator

http://www.digitalview.com/csg



www.digitalview.com

USA

18440 Technology Drive, Morgan Hill, CA 95037, USA t: +1 (408) 782-7773

EUROPE

The Lake House, Knebworth Park, Herts, SG3 6PY, UK t: +44 (0) 20-7631-2150

ASIA

705-708 Texwood Plaza, 6 How Ming St, Kwun Tong, Hong Kong t: (852) 2861-3615



The QR code above links to the product page on the website