DIGITAL VIEW®

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

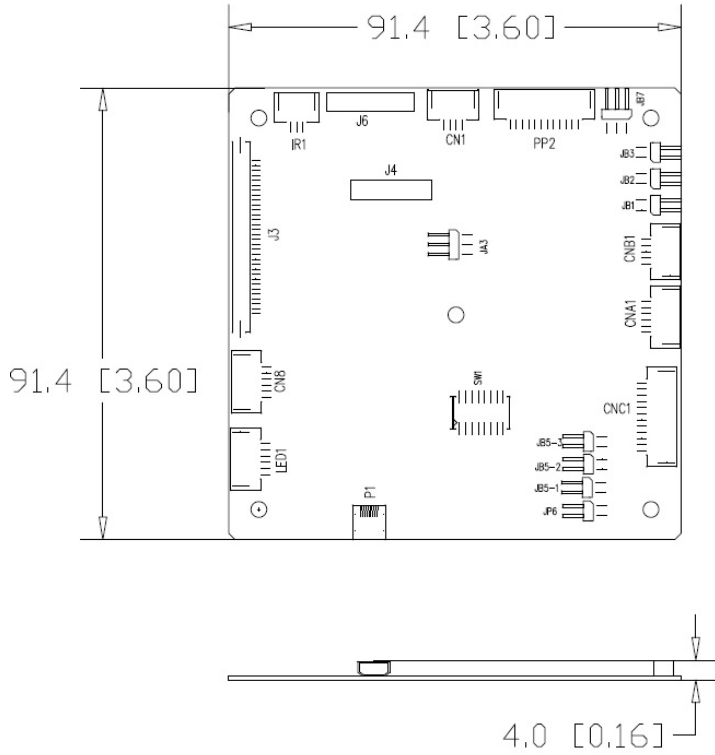Note: Uses Micro-HDMI connector (standard size is available as build option)

Reliability

Calculated MTBF:	In excess of 250,000 hours
Warranty:	3 years

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

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

Drawing

91.4 [3.60]

91.4 [3.60]

4.0 [0.16]

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

» 2D (jpg)
» 3D (SLDPRT)

Webpage at:

https://www.digitalview.com/control-
lers/dt-1920-hdmi-edpt-lcd-control-
ler.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

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