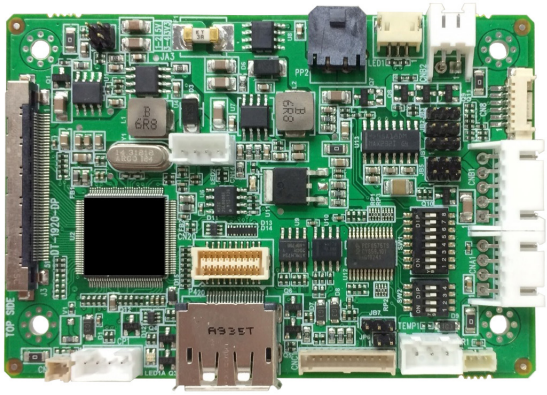


DT-1920-DP

DP Input LCD Controller Board

Key Features :

> LCD resolution up to 1920 x 1200, 8 bit, LVDS
> Input signal: Displayport, 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: 4177400xx-3

The Digital View DT-1920-DP LCD controller board with single Displayport 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:	Analog or PWM brightness control
	DPMS enable pin (3.3V or 5V)

*Option: Custom resolutions also supported

Video Signal Input

Displayport 1.2a:	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

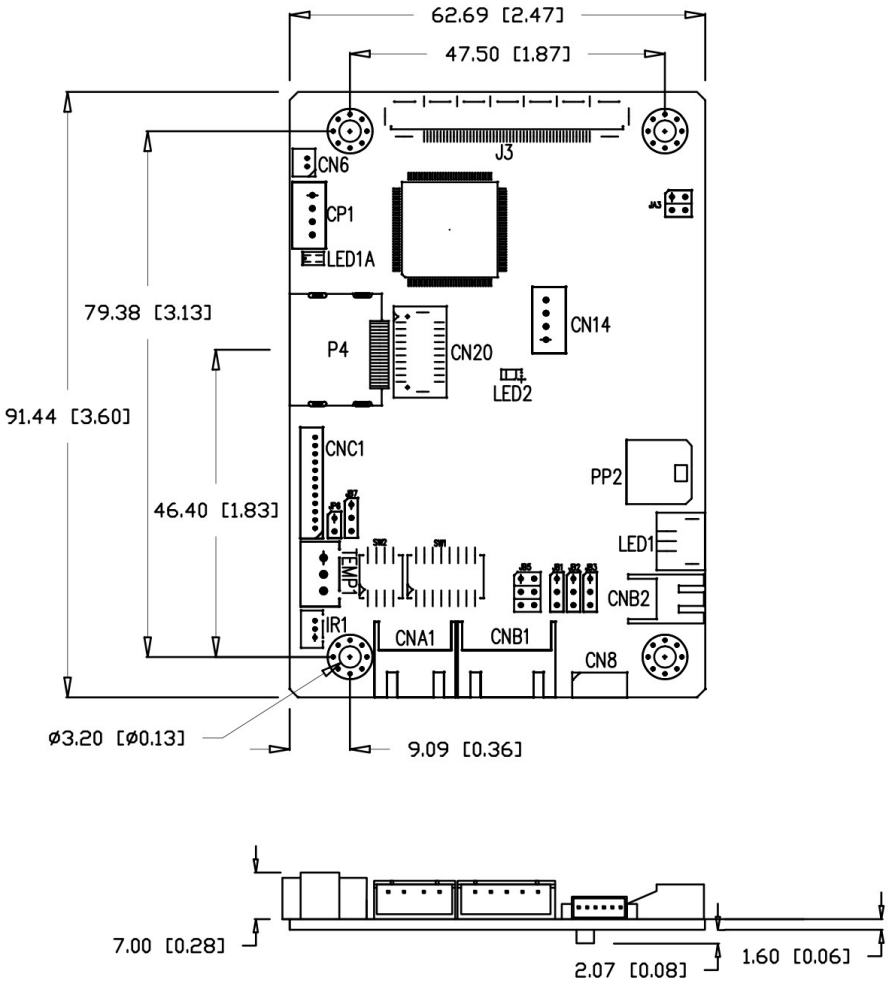
Calculated Mean Time Between Failures In excess of 200,000 hours.
Warranty: 3 years.

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, DDC/CI
Image Scaling :	Up / Down scaling to fit input to panel format.
Image Control :	Black level, Contrast, Sharpness, Backlight brightness, Color temperature, Gamma, Aspect ratio.
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 for controller status Single color LED support for power status

*Specifications subject to change

Dimensions



Connector Definitions

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
CCP1	Internal programming connector
IR1	Infra-Red sensor connector
LED1	Dual color LED connector for controller status
P4	Displayport signal input
J3	LVDS panel signal
PP2	Power input
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-DP Controller	**P/N: 4177000xx-3**
OSD - 5 button board	Kit 67204-3
OSD - 8 button board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
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/controllers/dt-1920-dp-lcd-controller

DIGITALVIEW®

www.digitalview.com

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

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