

## DVS-1600

### High Integration OEM Interface Controller

**Key Features :**

- > Low power Consumption
- > Small Form Factor
- > DVI, VGA Inputs
- > VGA to WXGA Resolutions

The DVS-1600 is a cost-effective, high integrated interface controller for TFT LCD monitor applications. Supporting 4:3, 5:4, 16:9 and 16:10 formats up to a maximum of UXGA, the controller addresses both mainstream and legacy applications. A flexible port architecture provides inputs for DVI, VGA,

Composite and S-Video along with a wide range of video modes. The DVS-1600 provides both TTL and LVDS outputs and can operate from either 12V or 24V supplies to address today's current panels.

#### Panel Connectivity

1680 x 1050	1366 x 768	1024 x 768
1600 x 1200	1280 x 1024	800 x 600
1400 x 900	1280 x 800	800 x 480
1400 x 1050	1280 x 768	640 x 480

#### Input

<b>Analog RGB:</b>	60Hz at UXGA 60Hz at SXGA, WXGA, XGA, SVGA, VGA  With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA ~ UXGA, interlaced & non-interlaced.
<b>DVI-D</b>	60Hz at UXGA 60Hz at SXGA, WXGA, XGA, SVGA, VGA
<b>Video:</b>	NTSC / PAL / SECAM (Interlaced) Composite Video S-video

#### Reliability

Calculated Mean Time Between Failures :  
260,000 hours. 3 Year Warranty

#### Custom Engineering Services

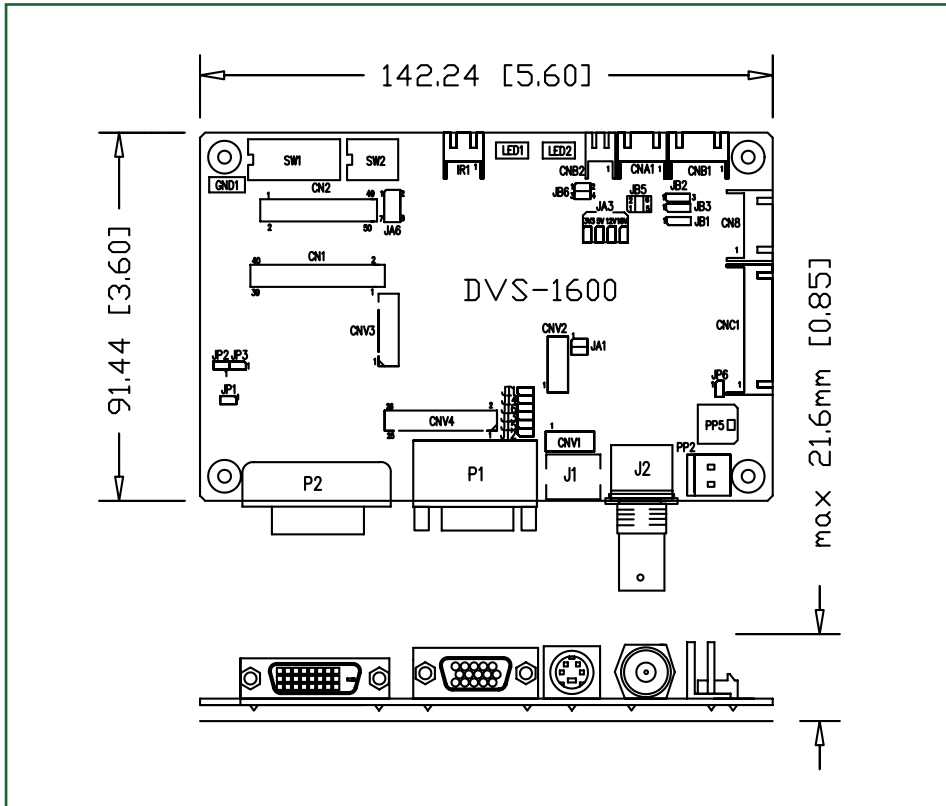
Panel timing, splash screen, OSD menu, conformal coatings, layouts etc

#### Features

<b>Colors :</b>	Up to 8-bit per color, 16.7 million colors.
<b>Functions :</b>	On Screen Display (OSD) menu.
<b>Function Controls :</b>	External buttons, Serial Port Control.
<b>Image Scaling :</b>	Up / Down scaling to fit input to panel resolution.
<b>Image Control :</b>	Brightness, Contrast, Saturation, Hue, Frequency, Phase, Color temperature, Image position, Hue, Gamma.
<b>Other Features :</b>	Auto picture setup, Auto RGB calibration, Auto source seek, OSD timeout, OSD position, input source select, OSD menu lock, Direct key for input source switching.
<b>Dimensions:</b>	147mm x 92mm (5.60" x 3.6")
<b>Form Factor:</b>	DV Standard & Mounting Holes
<b>Power Requirements :</b>	+12v / +24vDC ±5%, 4W (controller only)
<b>Panel Power :</b>	Supports 3.3V, 5V, 12V & 18V panels.
<b>Panel Signal :</b>	TTL (Single Pixel) & LVDS
<b>Inverter Support :</b>	DPMS Enable pin (3.3V or 5V).
<b>Plug &amp; Play:</b>	DDC 1,2/b compatible
<b>Status Indicator :</b>	Dual color LED support
<b>Backlight Status Indicator:</b>	Dual color LED support.

## DVS-1600

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### Connector Definitions

CN1	LVDS Panel Signal
CN2	TTL Panel Signal
CN3	TTL Panel Signal
CN8	Serial control (for firmware programming or serial control use only)
CNA1	Auxiliary Power Output
CNB1	Backlight Inverter
CNC1	OSD Function Controls
LED1	Dual color LED connector
P1	ARGB analog input
P2	DVI-D input
PP2	Main Input Power**

### Mechanical Details

Dimensions:  
107.4mm x 91.4mm (4.23" x 3.60")

Form Factor:  
DV standard & mounting holes

### Ordering Options / Accessories

DVS-1600 Controller board	P/N 4171400xx-3
OSD Digital Button Board Kit	Kit 60110-3
OSD Vertical Membrane Kit	Kit 60121-3
OSD Horizontal Membrane Kit	Kit 60125-3
Inverter Interface board	P/N 416040010-3
Power-Input Cable	P/N 426013800-3
RS-232 cable	P/N 426090200-3

### Available Resources

Instruction Manual  
Revision control documentation\*\*  
Schematic diagrams (Subject to NDA)  
Mechanical Drawings  
Serial Port Programming Manual\*\*  
MTBF Analysis\*\*

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