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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DIGITALVIEW®



DVS-1600

High Integration OEM Interface Controller

Key Features :

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 Low power Consumption 	> DVI, VGA Inputs
Small Form Factor	> 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 x1200	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	
Analog RGB:	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.
DVI-D	60Hz at UXGA 60Hz at SXGA, WXGA, XGA, SVGA, VGA
Video:	NTSC / PAL / SECAM (Interlaced) Composite Video S-video

Reliability

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

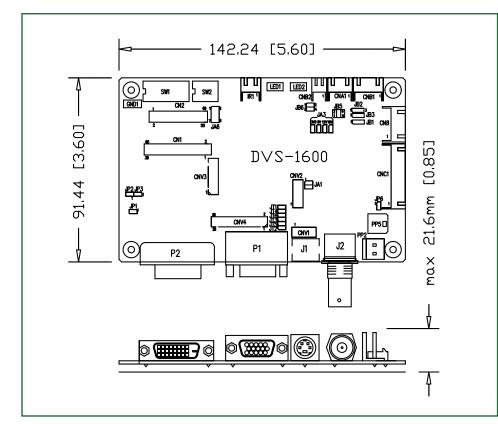
Custom Engineering Services

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

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

DVS-1600

High Integration OEM Interface Controller



Ordering Options / Accessories

DVS-1600 Controller board OSD Digital Button Board Kit OSD Vertical Membrane Kit OSD Horizontal Membrane Kit Inverter Interface board Power-Input Cable RS-232 cable

Kit 60110-3 Kit 60121-3 Kit 60125-3 P/N 416040010-3 P/N 426013800-3 P/N 426090200-3

P/N 4171400xx-3

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

Available Resources

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

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