

## ALR-1400

Interface controller for cost-effective, high reliability monitor applications

### Key Features :

- > DVI, VGA Inouts
- > Low Power Consumption
- > VGA to WXGA Resolutions
- > Small Form Factor

The ALR-1400 is a small footprint, highly integrated interface controller with both DVI and Analog RGB inputs. Capable of supporting 4:3 format panels up to SXGA and 16:9 format panels up to WXGA, the ALR -1400 also provides built-in LVDS and dual or single pixel TTL interfaces to address today's current LCD panels.

### Panel Connectivity

1366 x 768	1280 x 768	800 x 600
1280 x 1024	1024 x 768	800 x 480
1280 x 800	1024 x 600	640 x 480

### Input

Analog RGB :	60Hz at SXGA, WXGA, XGA, SVGA, VGA
	With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA ~ SXGA interlaced & noninterlaced.
DVI-D	60Hz at SXGA, WXGA, XGA, SVGA, VGA

### Reliability

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

### Custom Engineering Options

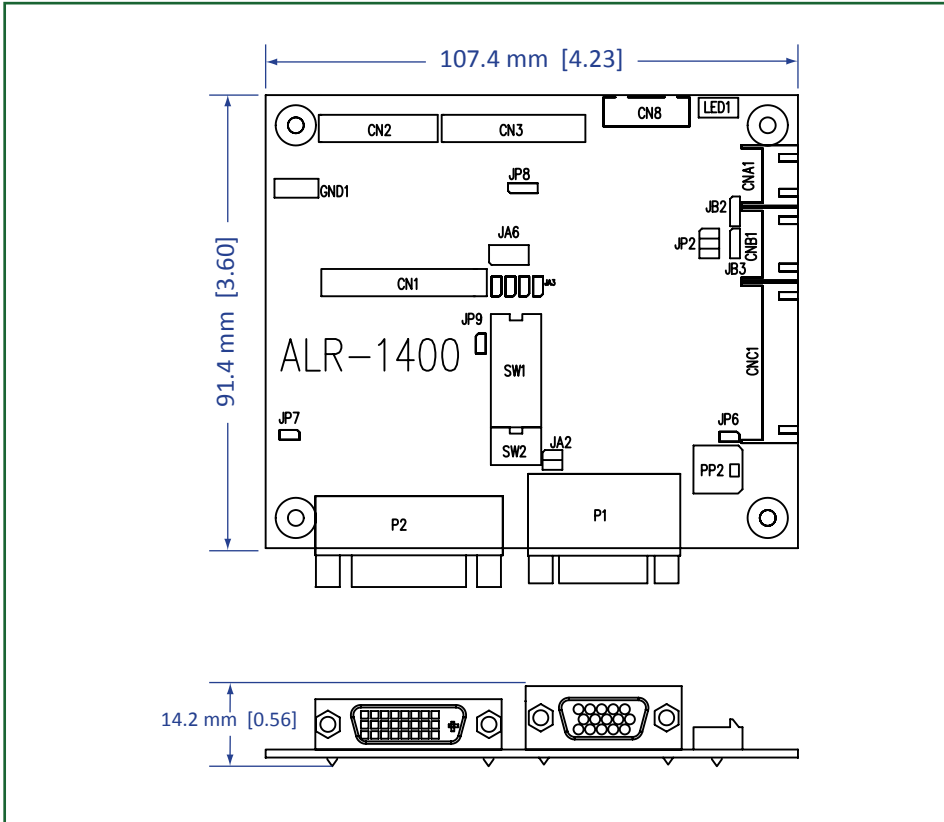
Custom input timing, panel timing, splash screen, OSD Menu, conformal coatings, layouts etc.

### 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 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 brightness level adjustment.
Dimensions :	107mm x 92mm (4.2" 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 & LVDS
Inverter Support :	DPMS Enable pin (5v or 12v/24v).
Plug & Play :	DDC 1,2/b compatible
Status Indicator :	Dual color LED support.

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### Connector Definitions

CN1	LVDS Panel Signal
CN2	TTL Panel Signal
CN3	TTL Panel Signal
CN8	Serial control
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 Dimensions

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

Form Factor:  
 DV standard & mounting holes

### Ordering Options

#### ALR-1400

P/N : 4171000xx-3

OSD Digital Button Board  
 OSD Vertical Membrane  
 OSD Horizontal Membrane  
 Inverter Interface Board

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

### Available Resources

3D Drawings inc JPEG previews

Instruction Manual  
 Revision control documentation\*\*  
 Mechanical Drawings  
 Firmware Upgrade Manual  
 MTBF Analysis\*\*

\* See accessories page on website for details.

\*\* Available upon request.

