ALR-1400

Interface controller for cost-effective, high reliability monitor applications

Key Features :

> DVI, VGA Inouts	> VGA to WXGA Resolutions
> Low Power Consumption	> 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 at 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 x768	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
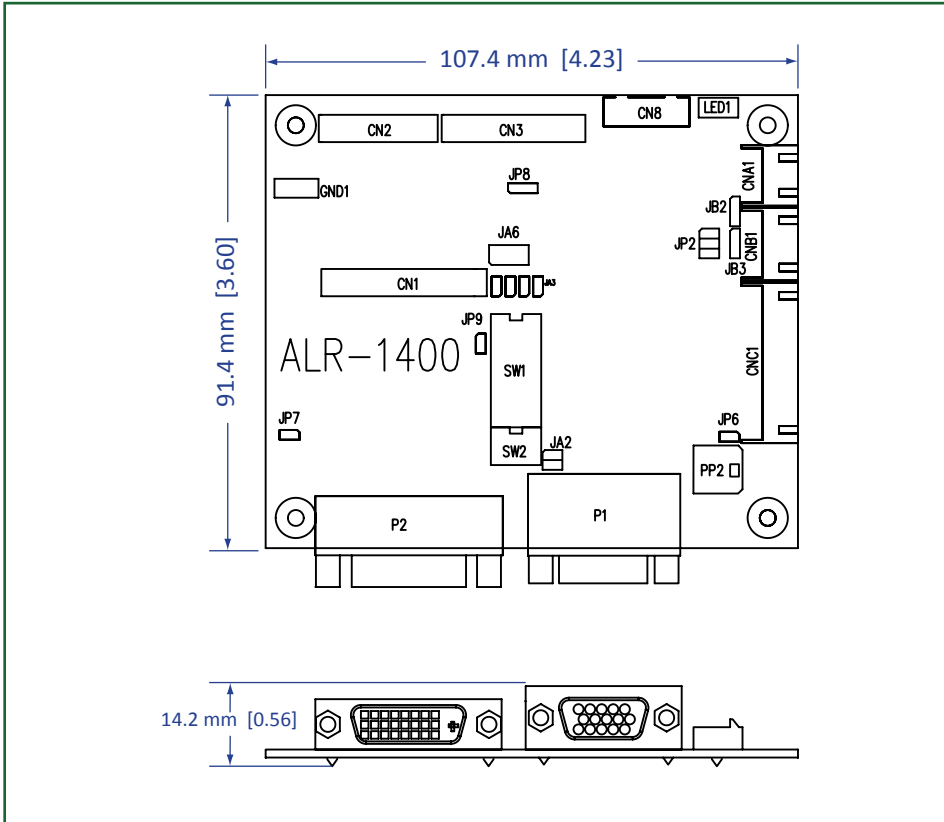In excess of 200,000 hours. Warranty - 3 years.

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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107.4 mm [4.23]

91.4 mm [3.60]

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14.2 mm [0.56]

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	Kit 60110-3
OSD Vertical Membrane	Kit 60121-3
OSD Horizontal Membrane	Kit 60125-3
Inverter Interface Board	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.

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