

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

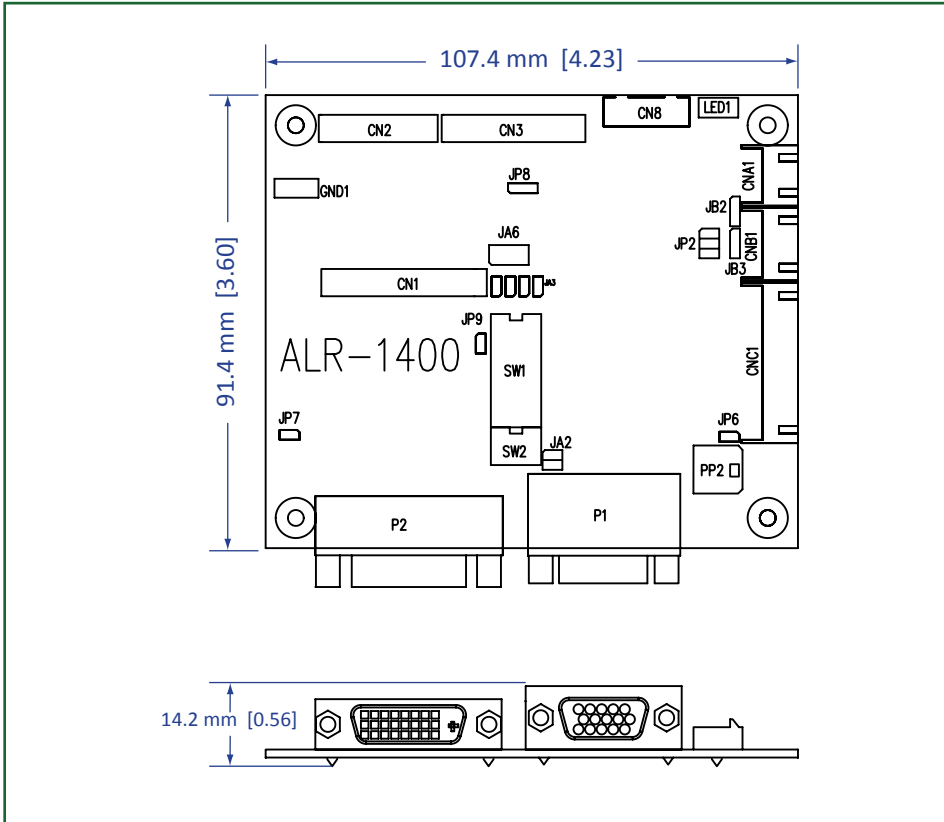
Custom input timing, panel timing, splash screen, OSD Menu, conformal coatings, layouts etc.

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 | 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.