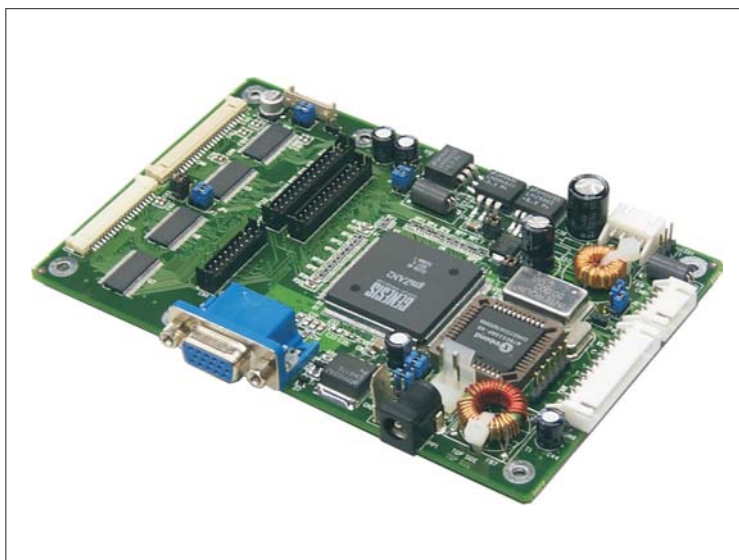


The Digital View AL-1024 interface controller for OEM monitor and packaged LCD solutions.

Panels: 1024x768, 800x600, 640x480 TFT colour LCD
Input: Analog XGA, SVGA, VGA

The AL-1024 is a multi-sync interface providing direct analog connection for a wide range of TFT LCD panels with a resolution of 1024x768, 800x600, 640x480. It allows full screen expansion of lower resolution image onto a higher resolution panel. On board LVDS Tx chips built-in to support LVDS panels without using LVDS adaptor board. The AL-1024 is a compact high performance single board solution.

Key features of Digital View flat panel interface controllers include excellent picture quality, ease of use, extensive features and cost effective performance.



XGA

SVGA

VGA

Features

- **Panel Connectivity:** Designed for VGA,SVGA, XGA resolution TFT panels.
- **Input signals:** Analog XGA SVGA, VGA, with separate sync.Vertical refresh rate up to 75Hz at XGA resolutions.
- **Computer graphics modes:** XGA ,SVGA, VGA mode. Non-interlaced.
- **Panel power:** 3.3V & 5V
- **Panel signal:** TTL, LVDS option
- **Colors:** Up to 8 bit per colour, ie 16.7 million colors (even on 3 x 6 bit panels).
- **Functions display:** On Screen Display (OSD) of functions
- **Functions control:** Buttons
- **Image control:** Brightness, Contrast, RGB adjust, Image position, Image horizontal size, Auto setup, Auto Balance, Auto Center, Auto phase, Phase
- **Other features:** System Information, OSD timeout, OSD position, Color temperature, Load factory default.
- **Multi-language:** 2 languages (English or French)
- **option for OSD menu display.**
- **Dimensions:** 142mm x 92mm (5.6" x 3.6") approx.
- **Mounting holes & layout:** Digital View standard.
- **Connectors:** Embedded & external type.
- **Power requirements:** 12V DC.
- **Power saving:** VESA DPMS compatible.
- **Inverter support:** 5 & 12V, Enable pin.
- **Plug & Play:** DDC 1, 2/b compatible
- **Status indicator:** Dual colour LED support.

Panel Compatibility Guide

Ref	Panel type
LG	TFT
Sharp	TFT
Samsung	TFT
Fujitsu	TFT
Hyundai	TFT
LG	TFT
Mitsubishi	TFT
Sharp	TFT
BIOS need to change to support different panel resolution.	

Order Information

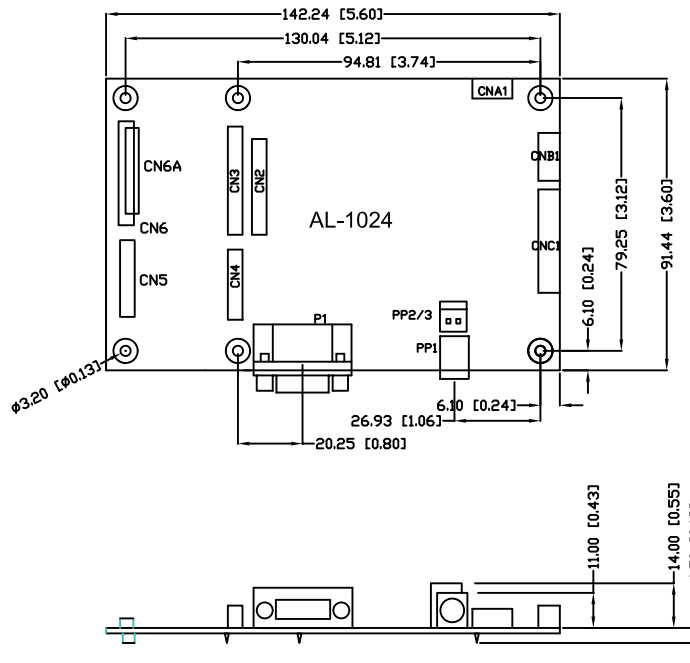
Item	Description
1	AL-1024 controller
2	Panel signal cable and connector board kit
3	LVDS signal cable
4	Backlight inverter & cables kit
5	Function controls & cables kit
6	Status LED kit
7	PC to controller graphics cable
8	AC/DC adapter with + 12V DC output

Support for the above panels (and more as they become available) is being introduced progressively, please check at time of placing order for specific compatibility.

Connection for VGA, SVGA, XGA resolution TFT type LCD panels

Built-in LVDS Tx chips to support LVDS panels without using LVDS adaptor board.

Consistent mounting holes, connector types and general layout with other Digital View controllers



Connection for panel backlight inverters.

User buttons control options

Input connectors for both embedded and external type connection.

Connector reference

CNA1	Auxiliary power output: JST B4B-XH-A	CN6A	LVDS panel signal: Hirose DF14-20P-1.25H
CNB1	Backlight inverter: JST B5B-XH-A	CN8	Pin Header 6x1 (Reserved for factory use)
CN1	LVDS power output: Hirose DF13-10P-1.25DSA	CNC1	Function controls: JST B12B-XH-A
CN2	Panel signal: Hirose DF11-28DP-2DSA	LED1	Dual colour status LED: 3-pin header
CN3	Panel signal: Hirose DF11-32DP-2DSA	PI	15 way VGA signal input
CN4	Panel signal: Hirose DF11-20DP-2DSA	PP1	Power input: 5.5mm jack for 12V supply
CN5	LVDS panel signal: Hirose DF14-20P-1.25H	PP2/3	Alternate power input : 2 pin header
CN6	LVDS panel signal: Hirose DF14-25P-1.25H		

Notes:

- Dimensions are in mm.
- PCB mounting holes connect to ground.
- PCB mounting holes are 3.2mm.
- Other mounting holes for inverter are not grounded.
- Drawing is not to scale.

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