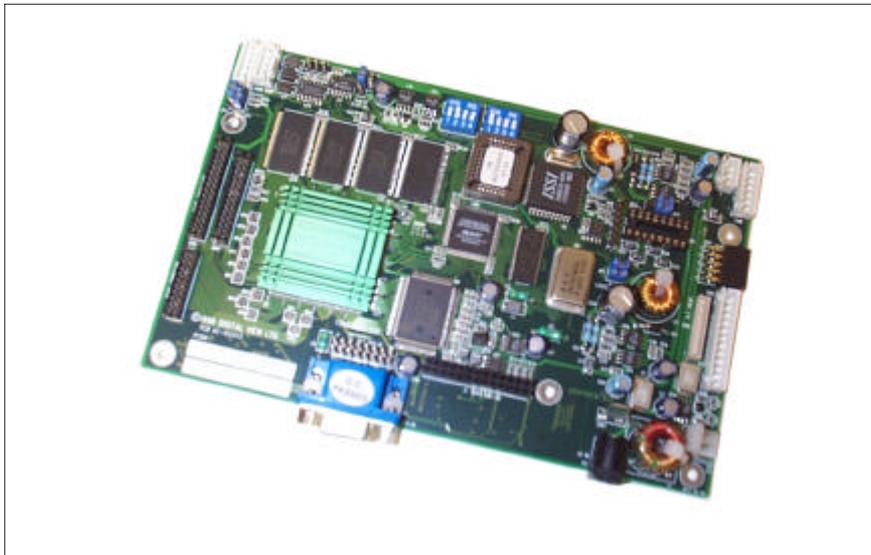## Introduction

Digital View interface controller designed for OEM monitor and packaged LCD solutions.

Panels: TFT colour - 1024 x 768 & other.
Input: Analog VGA, SVGA, XGA, PAL, NTSC & other

The AC-1024 v.3 is a fully buffered multi-sync interface providing direct analog connection for a wide range of TFT LCD panels with a resolution of 1024 x 768 and features full screen image expansion for VGA & SVGA modes. The AC-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.

Features

Panel Connectivity: Primarily designed for 1024x768 resolution TFT panels, versions are also available that support TFT 640x480, 800x600, 1024x600, 1280x1024 and Plasma 42" panels.

- **Input signals - Computers:** Analog VGA, SVGA & XGA with full screen image expansion, with separate sync, sync-on-green & composite sync (auto detect). Pixel clock to 135MHz, vertical refreshrate to 120Hz at XGA resolutions.
- **Input signals - Video:** Interlaced video, composite & S-video, PAL & NTSC (requires optional add-on board).
- **Input signals - Audio:** Optional stereo amplifier with volume control.
- **Computer graphics modes:** VGA~SXGA auto detect. Interlaced & non-interlaced.
- **Panel power:** 3.3V & 5V.
- **Panel signal:** TTL - LVDS & TDMS options.
- **Colors:** Up to 8 bit per colour, ie 16.7million colors (even on 3 x 6 bit panels).

- **Functions display:** On Screen Display (OSD) of functions with multiple languages.
- **Functions control:** Buttons, Infra-red, RS-232.
- **Image control:** Auto & manual setup, Brightness, Contrast, Tuning, Size, Individual RGB adjust, Image Rotate & Invert, Colour level, Expansion On/Off, Image position.
- **Other features:** System information, Run-time counter, OSD position, Signal level, Audio controls..
- **Dimensions:** 179mm x 114mm (7" x 4.5") approximate.
- **Mounting holes & layout:** Digital View standard.
- **Connectors:** Embedded & external type.
- **Power requirements:** 12V DC.
- **Power saving:** VESA DPMS compatible.
- **Power/signal protection:** Fuse and power sequencing.
- **Inverter support:** 5 & 12V, Enable pin.
- **Plug & Play**: DDC 2/b compatible
- **Status indicator:** Dual colour LED support.
- Auxilliary power output connector.
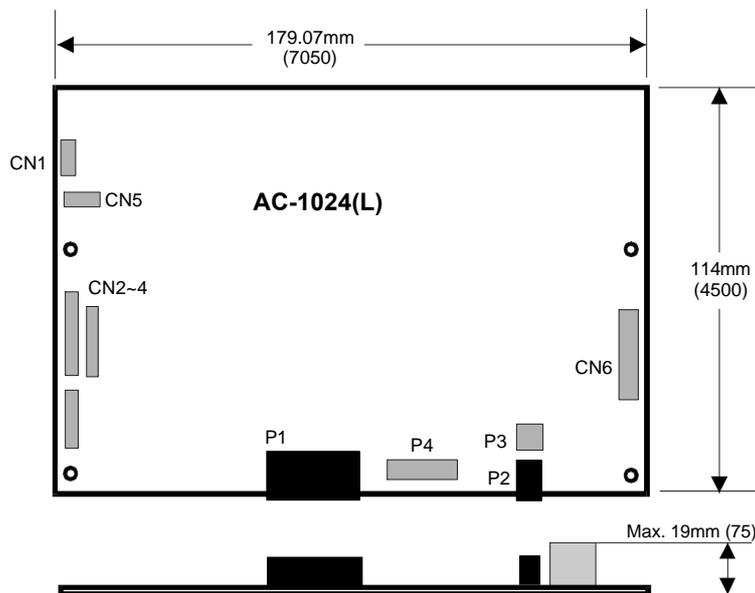
Panel Compatibility Guide

Ref	Panel type
Hitachi	TFT
Hosiden	TFT
LG	TFT
NEC	TFT
Sharp	TFT
Toshiba	TFT

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.

Order Information

Part # ref	Description
4163400-xx	AC-1024(L) controller
401xx	Panel signal cable & connector kit
5010x	Backlight inverter & cables kit
6010x	Function controls & cables kit
4106886xx	LVDS, TDMS interface options
4106887xx	PAL, NTSC input interface option
4106894xx	Audio input & amplifier option
4206811xx	PC to controller graphics cable
5000005xx	Power supply: 110~240V AC input

Variable xx is dependent on the panel selected and current version

179.07mm (7050)

AC-1024(L)

CN1

CN5

CN2~4

CN6

P1 P4 P3

P2

114mm (4500)

Max. 19mm (75)

Notes:
- Dimensions are in mm and (mil).
- 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.

Connector reference

CN1	Aux power output	P1	15 way D shell for VGA input
CN2	Panel signal	P2	5.5mm phono jack for 12 V DC supply
CN3	Panel signal	P3	Alternative power input
CN4	Panel signal	P4	Alternative VGA signal input
CN5	Inverter		
CN6	Function controls		
LED1	Dual colour status LED		

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Please visit our Web site for more information: **www.digitalview.com**