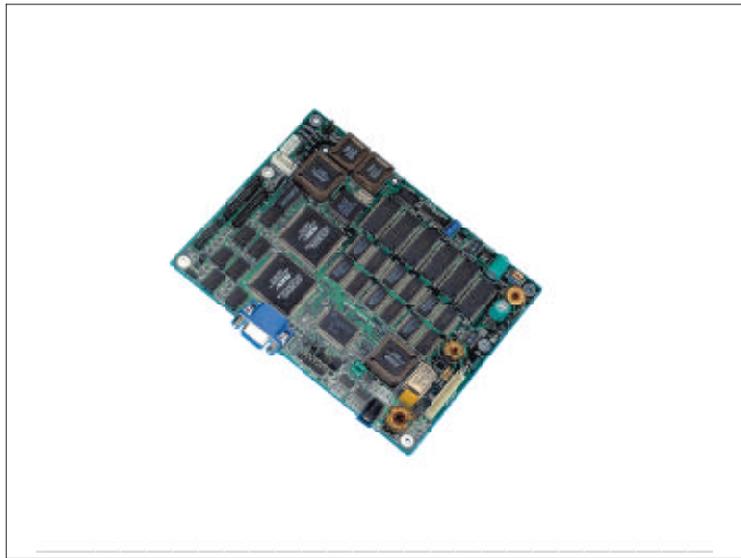


The Digital View AC-1280 interface controller for OEM monitor and packaged LCD solutions.

Panels: 1280 x 1024 TFT colour LCD & other.
Input: Analog SXGA, XGA, SVGA, VGA & other

The AC-1280 is a fully buffered multi-sync interface providing direct analog connection for a wide range of TFT LCD panels with a resolution of 1280x1024, 1024x768, 800x600 & 648x480 and features full screen image expansion for VGA SVGA & XGA modes. The AC-1280 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.



SXGA

XGA

SVGA

VGA

Features

- **Panel Connectivity:** Primarily designed for 1280x1024 resolution TFT panels.
- **Input signals:** Analog VGA, SVGA, XGA & SXGA with full screen image expansion, with separate sync, sync-on-green & composite sync (auto detect). Pixel clock to 135MHz, vertical refresh rate to 75Hz at SXGA resolutions.
- **Computer graphics modes:** VGA~SXGA auto detect. Interlaced & non-interlaced.
- **Panel power:** 3.3V, 5V & 12V
- **Panel signal:** TTL - LVDS & TMDS options.
- **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, Infra-red, RS-232.
- **Image control:** Auto setup, Brightness, Contrast, Tuning, Size, Individual RGB adjust, Expansion On/Off, Image position.
- **Other features:** System information, Run-time counter, OSD position, Signal level.
- **Dimensions:** 179mm x 139.7mm (7" x 5.5") approx.
- **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 1, 2/b compatible
- **Status indicator:** Dual colour LED support.
- Auxilliary power output connector.

Panel Compatibility Guide

Ref	Panel type
Fujitsu	TFT
Hitachi	TFT
IBM	TFT
LG	TFT
Mitsubishi/ADI	TFT
NEC	TFT
Philips/Hosiden	TFT
Samsung	TFT
Sharp	TFT
Toshiba	TFT

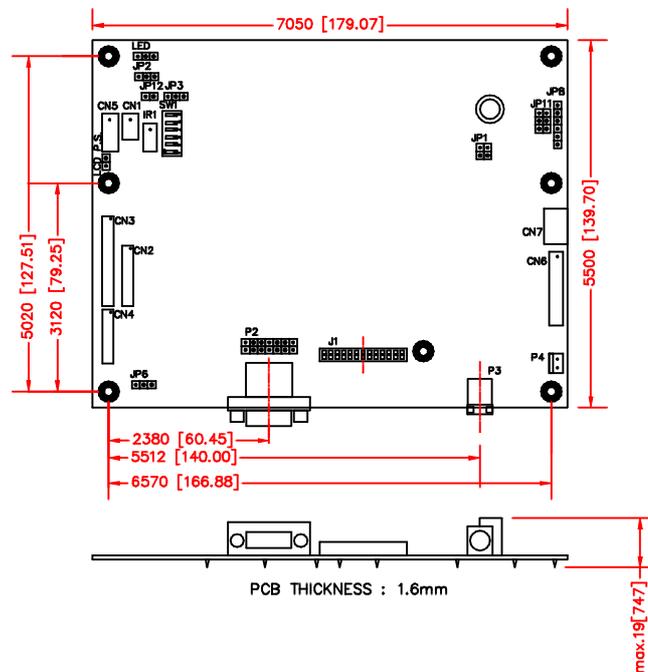
Support for the above panels (and more as they become available) is being introduced progressively, please check at time of placing order for specific compatibility.

Order Information

Item	Description
1	AC-1280 controller
2	Panel signal cable & connector kit
3	Backlight inverter & cables kit
4	Function controls & cables kit
5	LVDS, TMDS interface options
6	Audio input & amplifier board option
7	Status LED kit
8	IR sensor kits
9	PC to controller graphics cable
	AC/DC adapter with +12V DC output

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

Connection for 1280x1024 resolution TFT type LCD panels with standard & optional LVDS/TMDS



Connection for panel backlight inverters and auxiliary power for touch screens.

User control options include buttons, infra-red & RS-232.

Input connectors for both embedded and external type connection.

Connector reference

CN1	Auxiliary power output: JST B4B-XH-A	JP8	RS-232 serial: 6-pin header
CN2	Panel signal: Hirose DF11-28DP-2DSA	LED11	Dual colour status LED: 3-pin header
CN3	Panel signal: Hirose DF11-32DP-2DSA	IR1	IR sensor: JST B3B-XH-A
CN4	Panel signal: Hirose DF11-20DP-2DSA	P1	15 way VGA signal input
CN5	Inverter: JST B5B-XH-A	P2	Alternate VGA signal input, 15-pin header
CN6	Function controls: JST B12B-XH-A	P3	Power input: 5.5mm jack for 12V supply
CN7	Audio board: DIL socket header 5x2 right angle	P4	Alternative power input

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.

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