

Digital View AL-1280 interface controller for industrial and specialist commercial LCD applications.

**Panels:** 1280x1024, 1024x768, 800x600, 640x480 - LVDS connection TFT  
**Input:** Analog SXGA, XGA, SVGA, VGA

The AL-1280 maintains the high standards of all Digital View products including multi-panel support, high reliability components and design, excellent functionality, standardised board layout and ease of use.

Digital View provides a complete range of LCD interface products including controllers, cabling and other accessories as well as customisation, engineering and support services.



## Features

- **Panel Connectivity:** Designed for all TFT panels with LVDS connection and standard resolutions from 640x480 to 1280x1024.
- **Input signals:** Standard PC analog VGA to SXGA with auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Refresh rate 60Hz to 75Hz (panel dependent)
- **Computer graphics modes:** SXGA, XGA, SVGA, VGA mode. Non-interlaced.
- **Panel power:** 3.3V / 5V / 12V - 18V
- **Panel signal:** LVDS
- **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, Auto setup, Auto RGB Calibration, Phase, Frequency, Sharpness.
- **Other features:** OSD timeout, OSD position, Color temperature, Load factory default, Inverter backlight level.
- **OSD format :** Icons
- **Dimensions:** 107mm x 92mm (4.2" 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
AU Optronics	LVDS interface TFT
Fujitsu	LVDS interface TFT
LG	LVDS interface TFT
NEC	LVDS interface TFT
Samsung	LVDS interface TFT
Sharp	LVDS interface TFT
Unipac	LVDS interface TFT

## PC interface for LVDS TFT SXGA XGA,SVGA,VGA panels Order Information

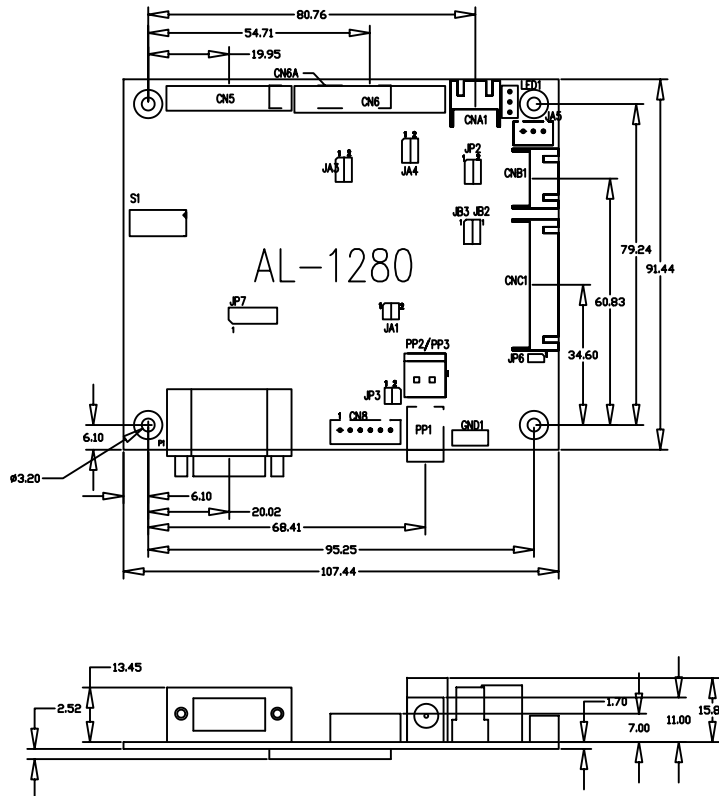
Item	Description
1	AL-1280 controller
2	LVDS signal cable
3	Backlight inverter & cables kit
4	Function controls & cables kit
5	Status LED kit
6	PC to controller graphics cable
7	AC/DC adapter with +12V DC output

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 SXGA resolution LVDS interface TFT type LCD panels

Internal 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	LED1	Dual colour status LED: 3-pin header
CNB1	Backlight inverter: JST B5B-XH-A	P1	15 way VGA signal input
CNC1	Function controls: JST B12B-XH-A	PP1	Power input: DC power jack
CN5	LVDS panel signal: Hirose DF14-20P-1.25H	PP2/PP3	Alternate power input : 2 pin header
CN6	LVDS panel signal: Hirose DF14-25P-1.25H		
CN6A	LVDS panel signal: Hirose DF14-20P-1.25H		
CN8	Serial control : JST B6B-XH-A (Reserved for factory use)		
JA5	External panel power input : JST B3B-XH-A		

### 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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