

S2AP LCD Panel Control Board for 4K2K



S2AP is a powerful graphics processing board, providing high-quality images for TFT panels. S2AP supports panels up to 4K2K (3840x2160) and can be used in a variety of systems.

Input: D-Sub, HDMI 1.4a, Display Port 1.2 Port, Audio
Output: Speaker Out

The S2AP is a V-by-One A/D board for Liquid Crystal Display (LCD) monitors support and up to UHD output resolutions. The S2AP provides all key A/D board functions required for image capture, processing and display timing control. Functions include a high-speed triple-ADC and PLL, high quality zoom and shrink scaling engines, an exquisite on-screen display (OSD), With all these functions integrated onto a single board, the S2AP reduces the cost of high-end multimedia LCD monitors while Maintaining a high degree of flexibility and quality.

Input Resolution

Power	4K2K(UHD)
Audio	WQXGA
D-Sub	QHD
HDMI	WUXGA
Display Port	UXGA
	SXGA
	XGA
	SVGA
	VGA

Key Features:

- Support resolution up to 4K2K (3840x2160), 60Hz panel
- PWM backlight intensity control
- Support RS232 Remote Control
- Support V-by-One panel
- Suitable for medical application, military, GIS-mapping, Retail automation, Point of Information

4k Panel List:

Brand	Model Name	Size	Brightness	Contrast Ratio	Resolution
Innolux	M280DGJ-L30	28"	300	1000:1	3840 x 2160
Innolux	V400DK1-KS1	40"	350	5000:1	3840 x 2160
Innolux	V500DK2-KS1	50"	350	4000:1	3840 x 2160
AUO	P550QVN01.0	55"	450	4000:1	3840 x 2160
Innolux	V580DK2-KS1	58"	400	4000:1	3840 x 2160
Innolux	V650DK1-KS1	64.5"	350	5000:1	3840 x 2160



Features

- Zoom and shrinking scaling
- Real Color controls provides RGBYMC compliance
- PWM back light intensity control
- Low EMI and power saving features
- Infrared inputs supporting various remote controls
- 32-bit frame store DDR2 memory for high-speed image capture and processing

- Support V-by-One Panel
- HDMI Input
- Display Port Input
- High-Quality Advanced Scaling
- Analog RGB Input
- Versatile On-Screen Display (OSD) design
- Real Color Technology
- Auto-Configuration/Auto-Detection
- Audio amplifier that supports up to 10W
- Operating Temperature : 0 ~ + 60°C
- Storage Temperature : -10 ~ + 60°C

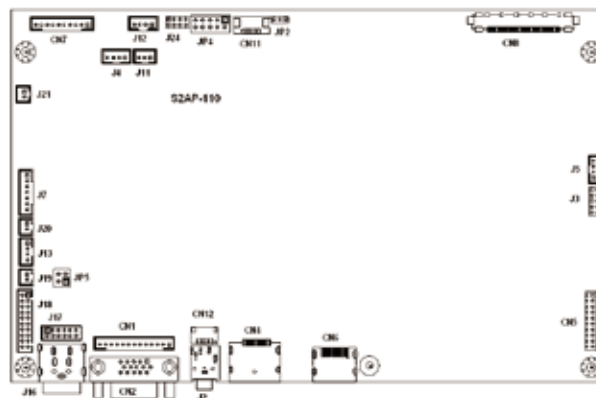


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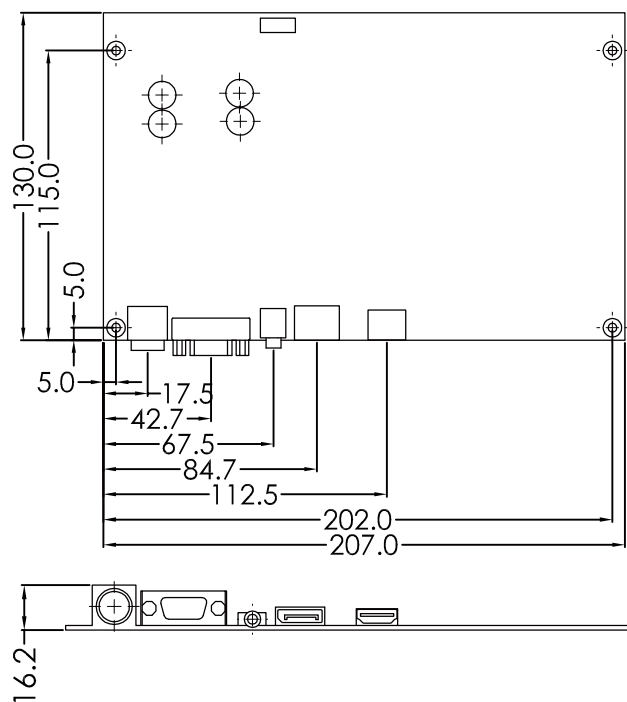


S2AP I/O & Connectors Guide

Connector	Description
J2	3.5mm Stereo Input
J3	Reserved FRC JTAG
J4	Speaker Output
J5	Reserved FRC I2C
J7	To Backlight Unit
J11	IR Sensor
J12	Reserved SoC I2C
J13	LPM Console Port
J14	Console Port B
J16	Power Din 4 Pin Input
J17	Power Wafer Input
J18	Power Wafer Output
J19	12V/1A Output
J20	5V/1A Output
J21	3.3V/1A Output
J24	RS-232 Source Selector for SOC/FRC
CN1	VGA Wafer Input
CN2	VGA D-Sub Input
CN4	Display Port Input
CN5	Reserved TMDS
CN6	HDMI Input
CN7	OSD Key pad
CN8	8 Lanes V by one Output
CN11	MCU ISP Port
CN12	Stereo Line Output
JP2	FRC bootstrap
JP4	3-Wire RS-232
JP5	24V/12V Selector for Power Input



S2AP Board Dimension



Pin No.	Description
1	Panel Signal cables Kit
2	Backlight Driving Board & cables Kit
3	IR Remote controller
4	OSD Board Kit