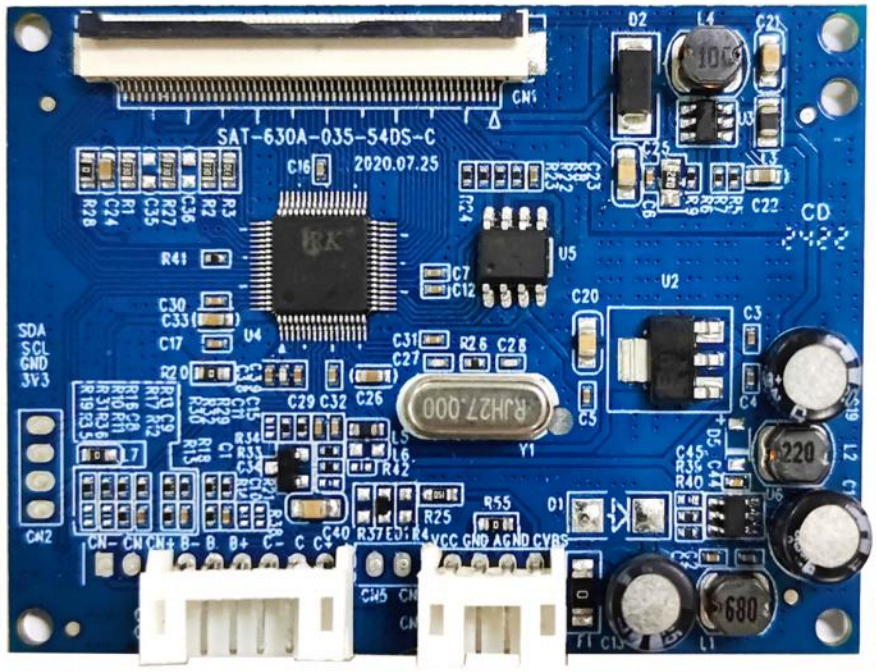
广 东 视 安 通 智 慧 显 控 股 份 有 限 公 司

Guangdong SAT intelligent display control Co., Ltd.

产品规格书

Specification



Model Name	Product Model	System
Color Display Module PCBA	SAT-630A-035-54-DS-C-2	PAL/NTSC Auto

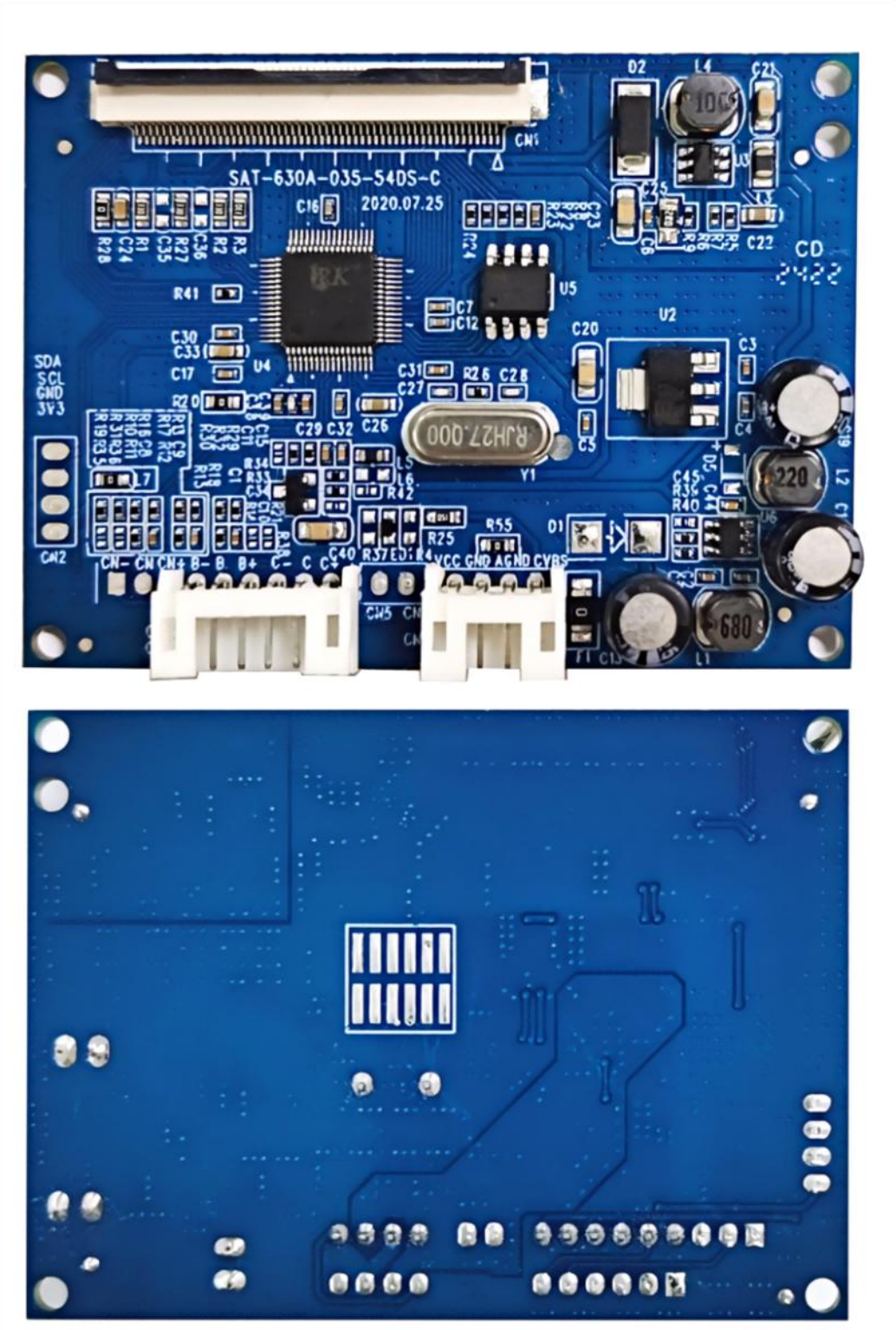
USER			MANUFACTURER		
Quality	Engineering	Approval	Documentation	Review	Approval

Add： No.27th Building,Yulv 6th Industrial Zone,Gongming Town,Guangming New District,Shenzhen.
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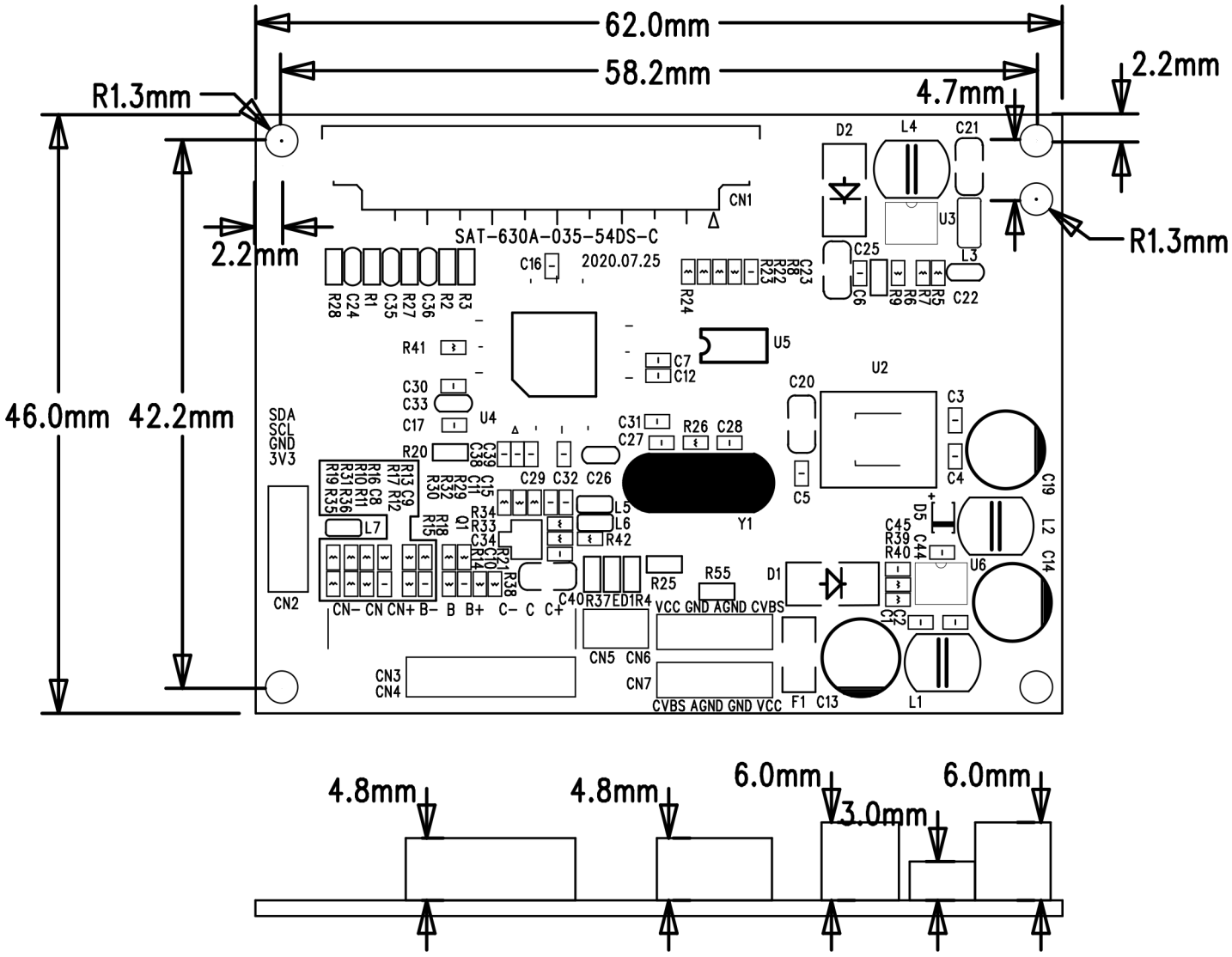
General Specifications

Display	TFT LCD Screen	3.5 inch/4.0 inch
	Resolution	320*240
	LCD Interface	TTL（RGB-24Bit）
Video	Signal Input	CVBS
	Supported Standards	PAL/NTSC
Interface	Buttons	OSD/Code Pairing Buttons
	Button Channels	3 - channel 12Bit SAR ADC
	Storage	4MB-EEPROM
	Power Supply	DC：12V 500mA
	Upgrade	I2C Communication

Product Image (For reference only, actual sample shall prevail)



PCBA Structure Diagram



Driver Board Interface Definitions

CN6 4-pin Connector (Specification: 2.0mm pitch) for Power and Video Connection

Pin	Symbol	Definition
1	VCC	9V-18V Power Input
2	GND	Power Ground
3	GND	Video Ground
4	CVBS	PAL/NTSC Video Input

CN3 6-pin Connector (Specification: 2.0mm pitch) for Adjustment Potentiometer

Pin	Symbol	Definition
1	B-	Brightness Potentiometer Minus
2	B	Brightness Potentiometer
3	B+	Brightness Potentiometer Plus
4	C-	Chroma Potentiometer Minus
5	C	Chroma Potentiometer
6	C+	Chroma Potentiometer Plus

CN2 4-pin Connector (Specification: 2.0mm pitch) for Software Debugging and Upgrade

Pin	Symbol	Definition
1	3V3	Debug Tool Power Supply
2	GND	Ground
3	SCL	I2C Communication Clock
4	SDA	I2C Communication Data

Pin Assignment

No	Symbol	Function	Remarks
1-2	LED_K	Backlight Power Negative	
3-4	LED_A	Backlight Power Positive	
5-7	NC	Not Connected	
8	RESTET	Reset	
9	SCS	Data Enable	For programming, leave unconnected if unused
10	SCL	Data Clock	
11	SDI	Data	
12-19	B0-B7	RGB Data	
20-27	G0-G7	RGB Data	
28-35	R0-R7	RGB Data	
36	HSYNC	Line Mode (Horizontal Sync)	
37	VSYNC	Line Mode (Vertical Sync)	
38	DOTCLK	Clock	
39-40	NC	Not Connected	
41-42	VCC	Screen Power Supply (3.3V)	
43-47	NC	Not Connected	
48	XR	Right Differential Signal	RTP interface, leave unconnected if unused
49	YD	RTP interface, leave unconnected if unused	
50	XL	Left Differential Signal	
51	YU	Top Differential Signal	
52	DEN	DE Mode Signal	
53-54	GND	Ground	

Standard Cables:

No standard cables or customized as per customer requirements.

Packaging, Transportation, and Storage

1、Product Label Information：

SAT-630A-035-54-DS-C-2
630A043VROSDABC250101 250101 a

First line: Model Name
Second line: Chip information + LCD size + adjustment method + customer code + software release date, production cycle, tester code

2、Packaging Specifications：

Single Unit (Sample) Packaging Dimensions:： 180*120*30mm

Large Box Packaging Dimensions： 440(L)*305（W）*227（H）mm

Large Box Quantity: 260PCS(Tray Packaging)



3、Transportation and Storage：

Avoid collisions and exposure to rain or snow during transportation. Do not

store with chemicals or damp items.

Precautions

☆ Do not exceed the maximum designed input voltage.

☆ Ensure correct placement of power and signal cables to avoid damage.

☆ This driver board is an electronic product; handle with anti-static precautions during assembly and operation.

☆ Ensure signal input impedance matching. The 75-ohm resistor (R4) on the board is for impedance matching.