



3.5"-10.1" LCM&TFT Module manufacturer
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SPECIFICATION SHEET

4.3" STANDARD TFT LCD MODULE

- Model No.:SAT-630-CM40D-SO-N
- System: PAL/NTSC Automatic



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1. INTRODUCTION

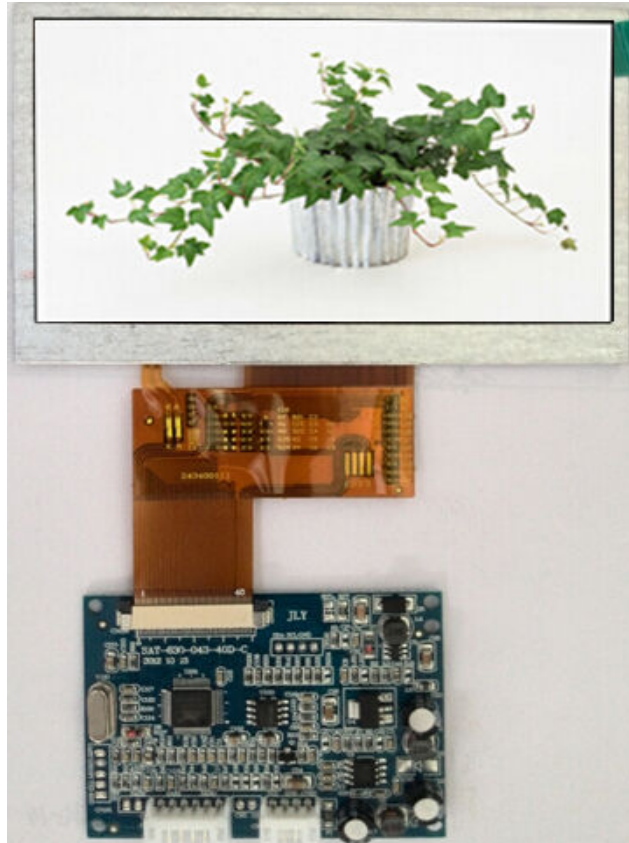
SAT-630-CM043D-SO-N TFT module is combined with SAT-630-043-40D-C and SAT043CM40DHY0-A0-01-VSD digital panel; support both PAL system and NTSC, which can be automatically converted. The whole module use high light white LED as back-light, which has low consumption and disturbances. This TFT module can be used for visual doorbell, video telephony, automotive displays, portable DVD, instruments, meters and measuring equipment etc.

2. MAIN PARAMETERS

Resolution	480(H)*272(V)dot matrix
Valid display area	95.04(H) x 53.86(V)mm
Color style	R.G.B. Beeline array
Aspect ratio	16:9
Backlight source	LED backlight

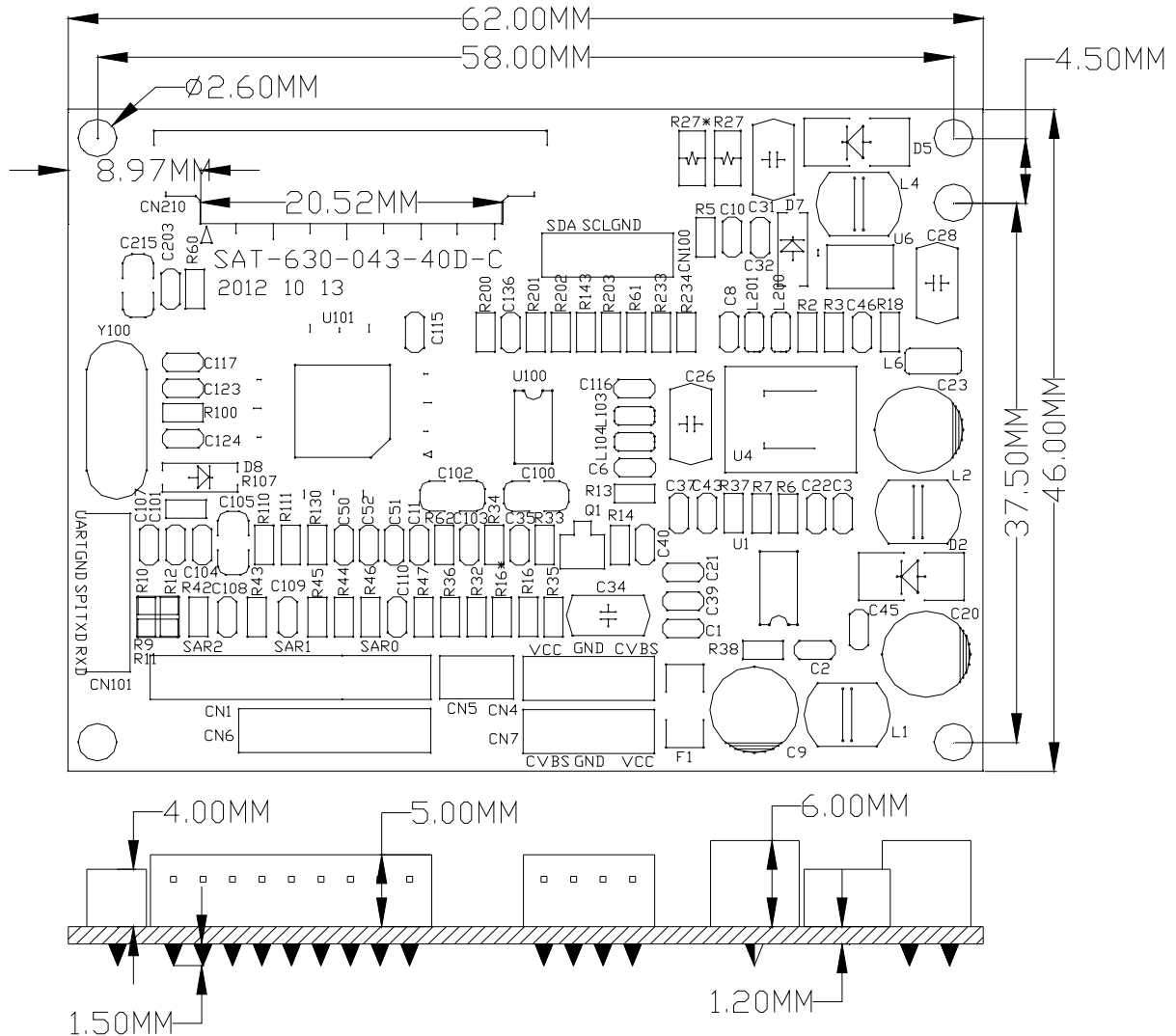
Working voltage	DC9V~DC18V (standard:DC12V)
Working voltage(DC12V)	DC140mA±20mA
Signal system	PAL/NTSC
Brightness	200cd/m ²
Scope of input signal	Standard:1.0 Vp-p,Minimum:0.5 Vp-p ,Maximum:2.0 Vp-p
Startup time	≤1.8S
Power consumption	≤1.5W
Working temperature scope	-20°C-60°C
Storage temperature scope	-40°C-70°C

3. PRODUCT PICTURE FOR REFERENCE



4. DIAGRAM AND INTERFACE DEFINITION

4.1. PCB DIAGRAM



5. INTERFACE DEFINITION

CN4: 4-wire leads out (PH specifications, 2.0mm space between) for power and video.

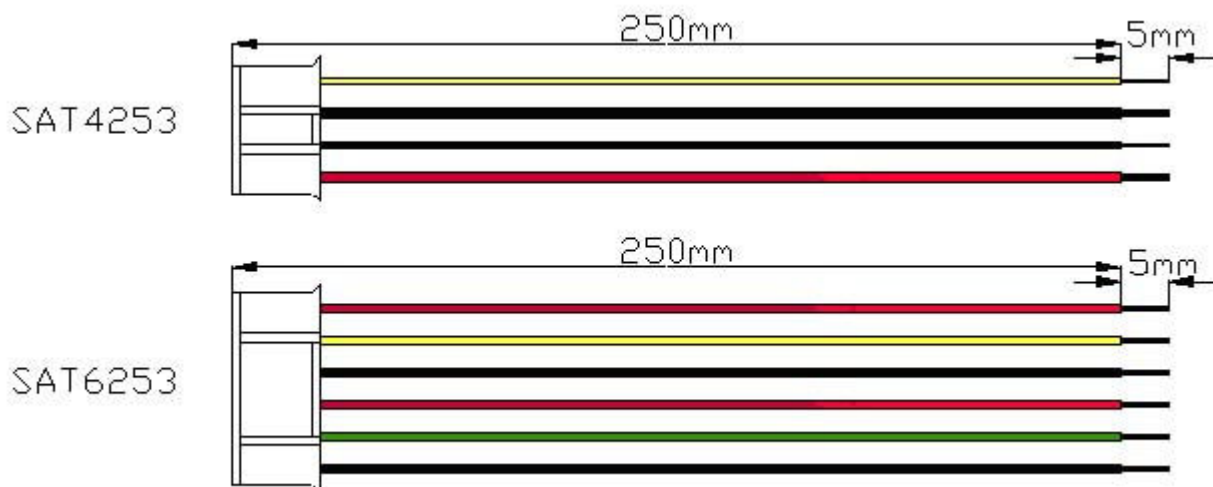
Pin	Symbol	Definitions
1	VCC	9V~18V Power Input
2	GND	Power ground
3	GND	Video ground
4	CVBS1	PAL/NTSC VIDEO Input

CN1: 6-wire leads out (PH specifications, 2.0mm space between),used for potentiometer

Pin	Symbol	Definitions	Value of resistance
1	COL-	Chrominance VR (-)	10---50K
2	COL	Chrominance VR	
3	COL+	Chrominance VR(+)	
4	BRT-	Brightness VR(-)	10—50K
5	BRT	Brightness VR	
6	BRT+	Brightness VR(+)	

6. STANDARD WIRING

SAT4253 SAT6253 connect line (UL1007-24#)。



7. PACKING, TRANSPORT AND STORAGE

7.1 Package



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Sample packing dimension: 120×120×40mm

Module wiring: SAT4253--250mm、SAT6253--250mmeach 1pcs

Large box of packing specifications:413(L)*270(W)*280(H)mm

Carton quantity: 80PCS,(each separated by paper card board.)

7.2 TRANSPORT AND STORAGE

To avoid transport during rain or snow days. Prohibited to store with chemical materials and wet things.

8. ATTENTION

- ☆ The input voltage should not be higher than upper limit of designed voltage.
- ☆ Distinguish power line and signal line; if connect reversely, the board can be burn out easily.
- ☆ The board is electronic product, so static electricity should be precaution during process、assembling、operate.
- ☆ Panel is glass product, should handle carefully in case of breakage.
- ☆ The FPC line connects panel and PCB, it can be easily broken off or pull apart, so should be careful during process、assembling、operate.
- ☆ When using, the signal resistance should be matched with the module internal resistance. Whether choosing 75ohm resistance or not is according to customer's requirement.

9. PANEL DECISION CRITERIA

9.1. TESTING CONDITION

Test distance: 35CM±5CM

View angle: Check when light on: ±5 degree;

Outlook checking: ±45 degree.

(from screen surface 0 degrees away in vertical)

9.2. CIRCUMTANCES



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Temp.: 23±5 degree

Humidity: 55±10 degree

Brightness: Outlook check:600LUX; Lighting on: 300-500LUX

9.3. INSPECTION METHOD

Scratch: Inspect at 600LUX,from 30CM away, check in vertical

(or left/right 45 degree), if no any scratches, then qualified.

Black dot: Compare LCD black dot with Dot investigation standard by eyes.

White/color dot: Cover black dot investigation standard paper on the white dot or color dot, to check if the white/color dot is available.

9.4. INSPECTION STANDARD

Remark: 1. Diameter= (maximum +minimum)/2

2. Total quantity of Black dot, White dot, Color dot: A+B≤4

DIAMETER (mm)		ALLOWED AREA	
		A area	B area
Black dot	d≤0.2	Neglect	Neglect
	0.2<d≤0.3	4	4
	0.3<d≤0.5	2	3
	0.5d>0.8	0	2
White dot	d≤0.2	Neglect	Neglect
	0.2<d≤0.3	3	3
	0.3<d≤0.5	1	2
	0.5d>0.8	0	1

9.5. DIVISION OF A/B AREA

