

Accele

7" LCD VGA

Module

March 8

2011

*7" WIDESCREEN LCD VGA MODULE With LED BACKLIGHT,
RESOLUTION 800X480, BRIGHTNESS 250CD/M2, CONTRAST
RATIO 500:1, VIEWING ANGLE L/R 65/65 , U/D 50/60
DEGREES, RESPONSE TIME ON/OFF 12/18 MS*

LCD7WLVGA

LCD7WLVGATS

Features

- Support Analog RGB signal resolution
 1. SVGA 800x600
 2. VGA 640x480
- Support VGA input

- Support Composite Video input
 1. PAL
 2. NTSC

- (Optional) Support TV input
 1. PAL
 2. NTSC
 3. SECAM

- Support Audio amplifying

Mechanical Specification

Board Dimension

Dimension	Specification	Unit
Length	120.0	mm
Width	75.0	mm
Thickness	7	mm

Video Input Signal

Video-Composite signal 1.0 Vp-p 75Ω

Operating Temperature

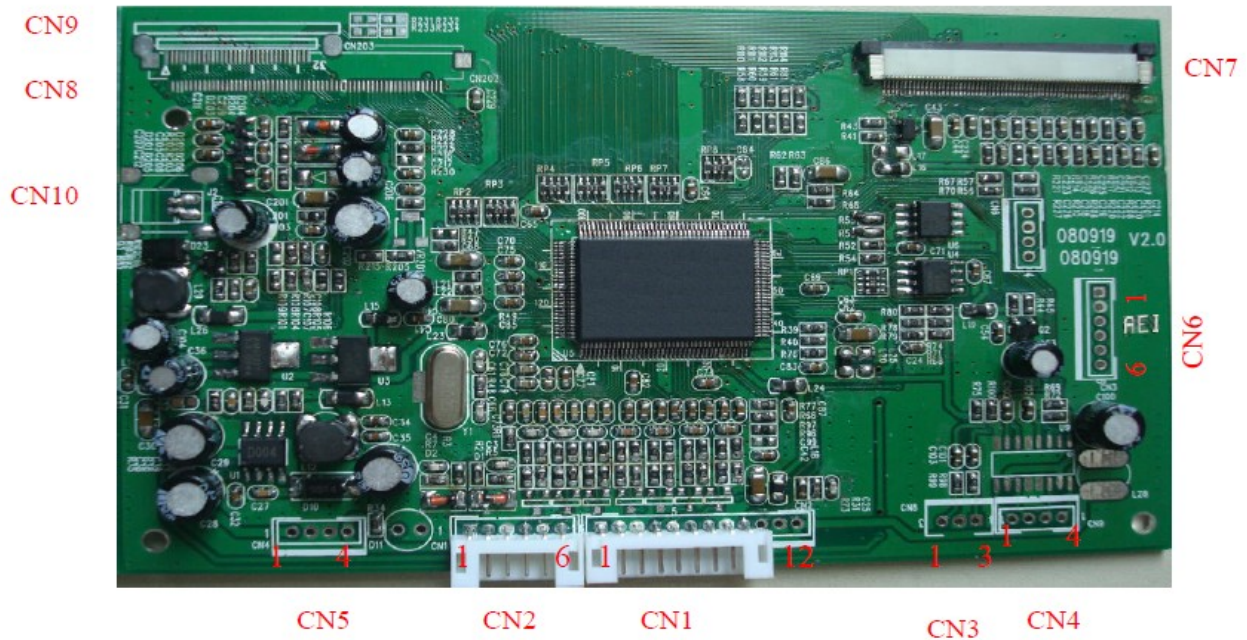
0°C ~ 60°C

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Supply Voltage	Vcc	GND = 0	6	12	24	V	
Supply Current	Icc	Vcc = 12		<600		mA	

Driver Board Specification

Terminal Drawing



CN1	
PIN	Connection
1	VCC +12V(POWER)
2	GND
3	GND
4	AV IN(Video-Composite)
5	TV IN
6	C-IN
7	Y-IN
8	GND
9	KEY
10	IR
11	GND
12	+5V

CN2	
PIN	Connection
1	HSY
2	VSX
3	GND
4	B-IN
5	G-IN
6	R-IN

CN3	
Audio	
PIN	Connection
1	L-IN
2	GND
3	R-IN

CN4	Audio
PIN	Connection
1	L-OUT
2	GND
3	GND
4	R-OUT

CN5	
PIN	Connection
1	+12V OUT
2	GND
3	GND
4	+5V OUT

CN6	
PIN	Connection
1	VIDEO IN
2	GND
3	DSA
4	DSL
5	+5V
6	AF

CN7	
PIN	Connection
1~60	7.0" TFT LCD Connector

NO.	Item	Unit	Specification	Remark
1	Screen Size	inch	7(Diagonal)	
2	Display Resolution	dot	800(H)×480RGB(V)	
3	Overall Dimension	mm	164(H) × 103(V) × 5.1(T)	
4	Active Area	mm	152.40(H)×91.44(V)	
5	Pixel Pitch	mm	0.1905(H)×0.1905(V)	
6	Color Configuration	--	Tri-Gate	
7	Color Depth	--	16.7M Colors	
8	NTSC Ratio	%	50	
9	Display Mode	--	Normally White	
10	Panel surface Treatment	--	Anti-Glare, 3H	
11	Weight	g	150±10	
12	Panel Power Consumption	mW	0.19	
13	Backlight Power Consumption	W	1.8	
	Viewing direction		6 o'clock (gray inversion)	

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	Remark
Response Time							
Rise	Tr	$\theta=0^\circ$	--	12	20	ms	
Fall	Tf		--	18	30	ms	
Contrast ratio	CR	At optimized viewing angle		500	--		
Viewing Angle	Top Bottom Left Right	$CR \geq 10$	40	50		deg.	
			50	60			
			55	65			
			55	65			
Brightness	Y_L	$\theta=0^\circ$		250	--	cd/m ²	
Chromaticity	White	X	$\theta=0^\circ$	0.25	0.30	0.35	
		Y	$\theta=0^\circ$	0.27	0.32	0.37	
	Red	X	$\theta=0^\circ$		TBD		
		Y	$\theta=0^\circ$		TBD		
	Green	X	$\theta=0^\circ$		TBD		
		Y	$\theta=0^\circ$		TBD		
	Blue	X	$\theta=0^\circ$		TBD		
		Y	$\theta=0^\circ$		TBD		
Uniformity	ΔY_L	%	70	75	--	%	

