

PC-TFT-7PA

Interface Board

Features

- Used for TFT-LCD display: 7" AND-TFT-7PA
- Video input compatible with NTSC/PAL system or separate video signal
- Requires only +12VD input
- Operating temperature 0°C ~ 60°C
- Storage temperature -20°C ~ 80°C

The PC-TFT-7PA is designed to work with the AND-TFT- color TFT display which is suitable for car TV, portable DVD and GPS, multimedia applications and other AV systems.

Mechanical Characteristics

Item	Specification	Unit	
Screen Size	7.9 (diagonal)	inch	
Display Format	1440 x 234	dot	
Active Area	116.128 (W) x 117.936 (H)	mm	
Dot Pitch	0.112 (W) x 0.504 (H)	mm	
Pixel Configuration	Stripe	_	
Weight	365	g	
Contrast Ratio	150:1	_	
View Angle	(V) +15° / -35°	dog	
View Angle	(H) ± 55°	deg	
Color	Full Color	_	
Brightness	300	cd/m ²	

Absolute Maximum Rating

Item	Symbol	Conditions	Min.	Max.	Unit
Operating Temperature	Тор	_	0	60	°C
Storage Temperature	Tstg	_	-30	80	°C



Electronic Characteristics

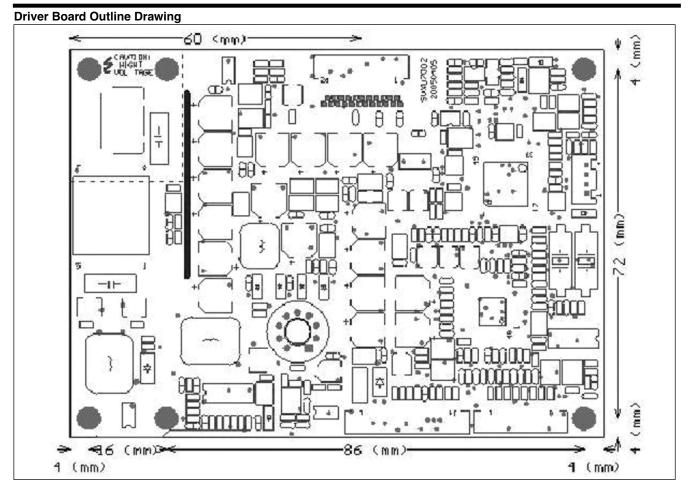
Pin No.	Symbol	Conditions	Input/ Output	Min.	Тур.	Max.	Unit
4	Video	NTSC/PAL (75Ω1Vpp)	Input	_	1	-	V
	Vin	DC (+)		10	12	14	V
1	lin		Input	_	630	_	mA
	Pin	DC (+12V)		-	7.5	-	W
10	Vo	DC (+)	Output	_	5	_	V
12	lo		Output	_	2	_	mA
5	Bright	DC (+)	Input	1.6	2.14	2.6	V
6	Contrast I	DC (+)	Input	2.1	2.7	3.2	V
7	Color	DC (+)	Input	1.6	2.76	3.5	V
8	Tint	DC (+) NTSC only	Input	_	3.0	_	V
9	NTSC/PAL	(Option)	Input	_	TTL	_	
10	Left/Right		Input	_	TTL	-	
11	Up/Down		Input	_	TTL	_	
_	_	Operating Temperature	_	0	_	60	°C

Connects to external Input Signal (CN3 Molex 53398-0910)

No.	Pin Name	I/O	Pin Description	No.
1	Rin	I	Rin	
2	Gin	I	Gin	
3	Bin	I	Bin	
4	SW	I	Switch (Video/ r.g.b. Select)	Note 1
5	SYNC in	I	SYNC in	
6	SYNC out	0	SYNC out	
7	/HSYNC out	0	/HSYNC out	
8	/VSYNC out	0	/VSYNC out	
9	Gnd	I	Ground	

Note 1 : Video = Low, High(+5V) for R.G.B. input







User Interface Board

Features

- Used for PC-TFT-7PA Interface board
- · Composite video signal 1.0Vp-p 75R
- Operating temperature 0°C ~ + 60°C
- Storage temperature -20°C ~ + 80°C

The PC-TFT-7PA driving board accepts remote or keyboard controls and provides functions such as: brightness, contrast, color, tint, NTSC/PAL, Left/Right, Up/Down, RBG, etc.

Absolute Maximum Rating

Item	Symbol	Conditions	Min.	Max.	Unit
Operating Temperature	Тор	_	0	60	°C
Storage Temperature	Tstg	_	-30	80	°C

Electronic Characteristics

Pin No.	Symbol	Conditions	Input/ Output	Min.	Тур.	Max.	Unit
5	Video	PAL or NTSC	Input	_	1	-	V
	Vin	DC (+)		10	12	14	V
1	lin		Input	_	-	_	mA
	Pin	DC (+12V)		_	_	-	W
6	Vo	DC (+)	Output	_	5	-	V
6	lo		Output	_	20	1	mA
7	Bright (RGB)	DC (+)	Input	1.5	1.66	20	V
8	Contrast I	DC (+)	Input	1.8	2.3	2.8	V
9	Color	DC (+)	Input	2.8	3.2	3.6	V
10	Tint	DC (+)	Input	3.0	3.15	3.3	V



Input/Output Connector

CN7: Power & Video Input Connector, Pin No. 14, Pitch: 1.25 mm, Molex 53398-1410 or compatible

CN8: Power & Video Input Connector, Pin No. 9, Pitche: 125mm, Molex 53398-0910 or compatible

Connector Pin Definition

CN2: Power In

No.	Pin Name	1/0	Pin Description	Remarks
1	+12V	I	Power In	
2	GND	I	Ground	

POWE2: Power In (@2.1mm)

No.	Pin Name	1/0	Pin Description	Remarks
1	+12V	I	Power In	
2	GND	I	Ground	
3	GND	I	Ground	

CN3: Keyboard Input

No.	Pin Name	1/0	Pin Description
1	S/AV	I	S-VIDEO or Video key Input
2	NC	I	_
3	Right	I	Right-Key Input
4	Mute	I	Mute-Key Input
5	Power	I	Power-Key Input

No.	Pin Name	I/O	Pin Description
6	Menu	I	Menu-Key Input
7	Left	I	Left-Key Input
8	GND	I	Ground
9	Remote	I	Remote Input
10	+5V	1/0	Power Reserve

CN4: Power Out (Reserve)

No.	Pin Name	1/0	Pin Description	Remarks
1	+12V	I/O	Power Out	
2	GND	I	Ground	
3	On/Off	I	On: High, Off: Low	

CN5:TV Input (Reserve)

No.	Pin Name	I/O	Pin Description
1	SCK	I/O	Control Date
2	SDA	I/O	Control Date
3	TV-Video	I	Video Input
4	NC	_	-
5	TV-Audio	I	Audio Input

No.	Pin Name	1/0	Pin Description
6	Nc	_	_
7	+5V	I	Power
8	GND	I	Ground
9	+12V	0	Power
10	GND	I/O	Ground

CN6: Remote Input (Reserve)

No.	Pin Name	I/O	Pin Description	Remarks
1	Remote	I	Remote Input	
2	GND	I	Ground	
3	+5V	I	Power	



CN7: Pin Definition

No.	Pin Name	I/O	Pin Description
1	Vin	0	+12V Power input
2	GND	I	Power ground
3	GND	I	Power ground
4	GND	I	Video signal ground
5	Video	0	Composite video signal input
6	Reserve	0	-
7	Brightness	0	Brightness controll voltage input

NOTE 1. D/L = DI (=3V) IOI SHIIL HUHL. LOW (GIND) IOI SHIIL	Hi (=5V) for shift right, Low (GND) for shift left
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No.	Pin Name	1/0	Pin Description
8	Contrast	0	Contrast control voltage input
9	Color	0	Color control voltage input
10	Tint	NC	Tint control voltage input
11	N/P	NC	No Connection (Reserve)
12	R/L	0	Picture left/right inverse control (Note 1)
13	U/D	0	Picture up/down inverse control (Note 2)
14	NC	0	No connect

Note 2: R/L = Hi (=5V) for down, Low (GND) for up

CN5:TV Input (Reserve)

No.	Pin Name	I/O	Pin Description
1	Rin	0	Rin
2	Gin	0	Gin
3	Bin	0	Bin
4	SW	0	Switch (Video/R,G,B Select)
5	SYNC IN	I	SYNC In

No.	Pin Name	1/0	Pin Description
6	SYNC OUT	0	SYNC Out
7	/HSYNC OUT	I	/HSYNC Out
8	/VSYNC OUT	I	/VSYNC Out
9	GND	I	Ground

User Interface Board Outline

