



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°	deg
	(H) ± 55°	
Color	Full Color	—
Brightness	300	cd/m ²

Absolute Maximum Rating

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

**Electronic Characteristics**

Pin No.	Symbol	Conditions	Input/ Output	Min.	Typ.	Max.	Unit
4	Video	NTSC/PAL (75 Ω 1Vpp)	Input	–	1	–	V
1	Vin	DC (+)	Input	10	12	14	V
	Iin			–	630	–	mA
	Pin	DC (+12V)		–	7.5	–	W
12	Vo	DC (+)	Output	–	5	–	V
	Io			–	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	O	SYNC out	
7	/HSYNC out	O	/HSYNC out	
8	/VSYNC out	O	/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, RGB, etc.

Absolute Maximum Rating

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

Electronic Characteristics

Pin No.	Symbol	Conditions	Input/ Output	Min.	Typ.	Max.	Unit
5	Video	PAL or NTSC	Input	—	1	—	V
1	Vin	DC (+)	Input	10	12	14	V
	Iin			—	—	—	mA
	Pin	DC (+12V)		—	—	—	W
6	Vo	DC (+)	Output	—	5	—	V
	Io			—	20	—	mA
7	Bright (RGB)	DC (+)	Input	1.5	1.66	2.0	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, Pitch: 1.25mm, Molex 53398-0910 or compatible

Connector Pin Definition

CN2: Power In

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

POWE2: Power In (@2.1mm)

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

CN3: Keyboard Input

No.	Pin Name	I/O	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	I/O	Power Reserve

CN4: Power Out (Reserve)

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

