

PC-TFT-7PA-WV

Interface Board

Features

- Used for TFT-LCD display: 7" AND-TFT-7PA-WV
- Ultra Compact
- DC/DC, DC/AC, Video Decoder All in one
- NTSC/PAL Auto-Switch
- 16:9 and 4:3 Screen Mode Selection
- · Wide Viewing Angle
- Single Operation Voltage +12V

Panel Backlight Data

The PC-TFT-7PA-WV is designed to work with the AND-TFT-7PA-WV color TFT display which is suitable for security, video game, door phone, video phone, portable TV, and instrument display applications.

Product specifications contained herein may be changed without prior notice. It is therefore advisable to contact Purdy Electronics before proceeding with the design of equipment incorporating this product.

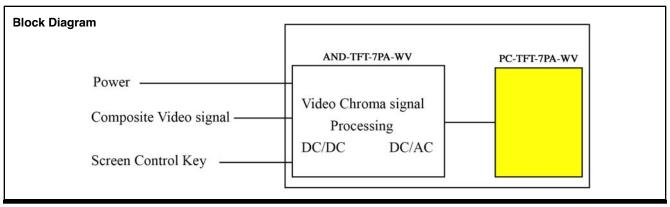
Item	Symbol	Min.	Тур.	Max.	Unit	Remarks
Lamp Voltage	V _L	474	527	580	Vrms	$I_L = 3mA$
Lamp Current	ΙL	3	6	8	mArms	_
Brightness	_	350	400	_	cd/m ²	

Absolute Maximum Rating

Item	Symbol	Remarks	Min.	Max.	Unit
Input Voltage	Vin	_	+9	+14	V
Video Input Signal	Video in	@75Ω	0.5	2.0	Vp-p
Digital Input Signal	TTL	_	+0.3	+5.3	V
Operating Temperature	_	_	-10	60	°C
Relative Humidty	_	_	5	90	%RH
Storage Temperature	_	_	-25	80	°C
Relative Humidity	_	_	0	90	%RH

Electronic Characteristics

Item	Symbol	Remarks	Input/ Output	Min.	Тур.	Max.	Unit
Input Voltage	Vin	-	Input	+11	+12	+13	V
Total Current	lin	_	Input	_	500	_	mA
Power Consumption	_	@+12V	Input	_	6	_	W
Video Input Signal	Video in	@75Ω	Input	_	1.0	_	Vp-p
Output Voltage	+5V	_	Output	_	+5V	_	V





J301: LCD Panel I/O Terminals (FPC 30 pin, 0.5mm below contact type.)

No.	Pin Name	1/0	Pin Description
1	GND	_	Ground for logic circuit
2	V _{CC}	I	Supply voltage of logic countrol circuit for gate driver
3	NC	_	No connection
4	V _{EE}	I	Negative power gate driver
5	NC	_	No connection
6	V_{GH}	I	Positive power for gate driver
7	NC	_	No connection
8	STVD	I/O	Vertical start pulse
9	STVU	I/O	Vertical start pulse
10	CKV	I	Shift clock for gate driver
11	U/D	I	Up/down control for gate driver
12	OE3	I	Output enable for gate driver
13	OE2	ı	Output enable for gate driver
14	OE1	I	Output enable for gate driver
15	V _{COM}	I	Common electrode voltage

No.	Pin Name	1/0	Pin Description
16	STHL	I/O	Start pulse for source driver
17	$V_{\rm SS2}$	_	Ground for analog circuit
18	V _R	I	Video input R
19	V _G	I	Video input G
20	V _B	I	Video input B
21	V _{SS1}	_	Ground for digital circuit
22	V_{DD2}	I	Supply power for analog circuit
23	CPH1	I	Sampling & shift clock for source driver
24	CPH2	I	Sampling & shift clock for source driver
25	СРНЗ	I	Sampling & shift clock for source driver
26	V _{DD1}	I	Supply power for digital circuit
27	R/L	I	Left/right control for source driver
28	NC	I	No connection
29	OEH	I	Output enable for source driver
30	STHR	I/O	Start pulse for source driver

J101: Pin Assignment of Signal Input (Pitch 1.25mm 8P, Side Entry Type)

Pin No.	Symbol	I/O	Description
1	GND	_	Ground
2	Down	I	OSD Down Key
3	Up	I	OSD Up Key
4	Select	I	OSD Select Key
5	Menu	I	OSD Menu Key
6	NC	-	No Connection
7	Power On/Off	I	Panel On/Off
8	NC	-	No Connection

J102: Pin Assignment of Signal Input (Pitch 1.25mm 10P, Side Entry Type)

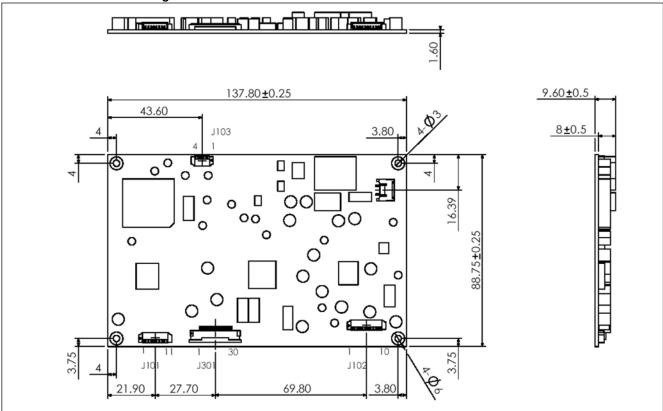
Pin No.	Symbol	I/O	Description
1	VCC	-	+12V Volts DC Input
2	VCC	_	+12V Volts DC Input
3	NC	_	No Connection
4	Video In	I	Video input (1Vp-p/75Ω)
5	NC	_	No Connection
6	NC	_	No Connection
7	GND	_	Ground
8	GND	_	Ground
9	GND	_	Ground
10	GND	_	Ground

CN1: Output for LCD Panel Backlight

Pin No.	Symbol	I/O	Description	Remarks	
1	HV+	0	High Voltage Terminal for Backlight	Connect to Pink Wire	
2	HV-	-	Return Terminal for Backlight	Connect to White Wire	



Driver Board Outline Drawing

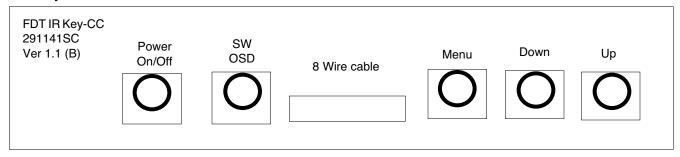


Panel Specifications

Item	Specifications	Unit
Screen Size	7.0 (16.9 diagonal)	inch
Display Format	1440 (H) x 234 (V)	dot
Active Area	154.08 (H) x 87.05 (V)	mm
Dot Pitch	0.107 (W) x 0.372 (H)	mm
Pixel Configuration	Stripe	-
Outline Dimension	166.0 (W) x 100.0 (H) x 7.2 (D)	mm
Weight	180 ± 10	g
Contrast Ratio:	150:1	-
Viewing Angle	(V) +40° / -50° (H) ±60°	-
Color	Full Color	
Brightness	400	cd/m ²



OSD Key Pad:



OSD Functions: Power: On/Off

SW: Sharpness

Tint

Color

Contrast

Brightness

Display Mode

Reset

Save

Menu: Select

Up: Increase

Down: Descrease