

PCM-3525 VGA to LCD Converter

Startup Manual



Packing List

Before you begin installing your card, please make sure that the following materials have been shipped:

- 1 PCM-3525
- 1 startup manual

If any of these items is missing or damaged, contact your distributor or sales representative immediately.

Note 1: For detailed contents of the PCM-3525, please refer to the enclosed CD-ROM or disk (in PDF format).

Note 2: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: www.adobe.com/Prodindex/acrobat/readstep.html (Acrobat is a trademark of Adobe.)

Mechanical and environmental

- **Dimensions: (L x W):** 96mm x90mm (3.8" x3.6")
- **Weight:** 125 g
- **Operating temperature:** 0 ~ 60° C (32 ~ 140° F)
- **Storage temperature:** -40 ~ 85° C (-40 ~ 185° F)
- **Operating humidity:** 0% to 90% relative humidity, non-condensing
- **Power supply voltage:** 5V or 12V
- **Power requirements:** 6 ~ 12V @ 600mA (9V Recommended)

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>
<http://www.advantech.com/epc>

For technical support and service, please visit our support website at:

<http://service.advantech.com.tw/eservice>

This manual is for the PCM-3525

Part No. 2006352500
Printed in Taiwan

1st Edition
June, 2004

Specifications

Form Factor: PC/104 Form Factor

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Chipset GENESIS gmZAN2,

Winbond W78E65P,

8-bit micro-controller

TFT output 48, 36, 24,18-bit

TFT (default 36,18-bit optional)

VGA input 15-pin D-SUB VGA

Resolution 1024 x 768, 800 x 600,640 x 480

Connector ESD Keypad connector for OSD control

LCD connector Hirose or pin header

Touch Screen Supported

External Power +5 V , +12 V

Temperature 0 ~ 60° C (32 ~ 140° F), operation

Operating Humidity 0% ~ 90% relative humidity, noncondensing

Size/Weight 96 x 90 mm (3.8"x 3.5")/0.81 kg (0.18lb)

Power +5 V ± 5%

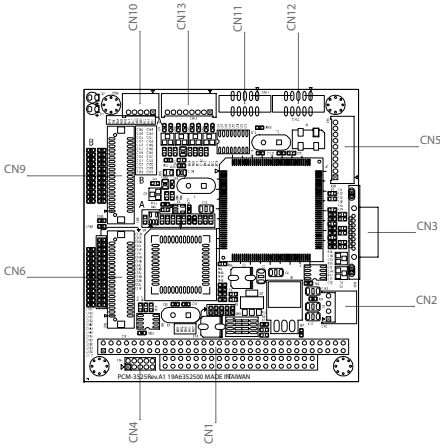
Features

VGA to TFT panel transfer module

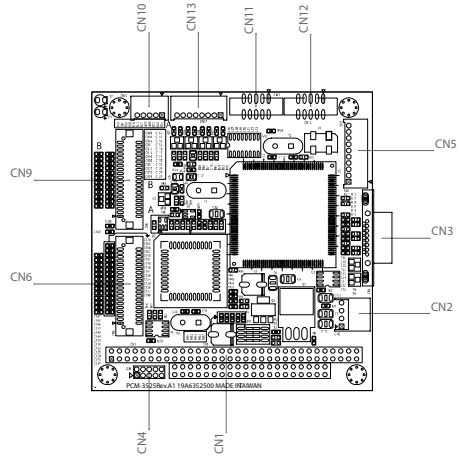
Touch screen and OSD (cable optional) support

Suitable for TFT LCD Panel Adapter

Board Layout



Component Placement



Dimensions

Jumpers & Connectors

CN10 Panel back-light power 5 pin connector

Pin	Signal
1	+12V output
2	GND
3	Back-light enable signal output
4	Back-light VBR signal output
5	+5V output

Connectors

Label	Function
CN1	PC 104 Connector
CN2	External Power Connector
CN3	VGA Connector
CN5	ESD Keypad Connector
CN6	LCD Connector (HIROSE)
CN9	LCD Connector (HIROSE)
CN10	Panel back-light power 5 pin connector
CN11	Debug Port Interface
CN12	TouchScreen Interface
CN13	TouchScreen Sensor Connector

CN2 VGA Connector

Pin	Signal
1	Red
2	Green
3	Blue
4	NC
5	GND
6	GND
7	GND
8	GND
9	+5V
10	GND
11	NC
12	DDC-Data
13	HSYNC
14	VSYNC
15	DDC-Clock

CN5 ESD Keypad Connector

Pin	Signal
1	GND
2	Orange LED
3	Green LED
4	ON/OFF
5	Exit
6	Select
7	Left
8	Right
9	Auto
10	GND

CN12 TouchScreen Interface

Pin	Signal
1	NC
2	DSR
3	Tx
4	RTS
5	Rx
6	NC
7	DTR
8	NC
9	GND
10	NC

CN2 External Power Connector

Pin	Signal
1	+12V
2	GND
3	GND
4	+5V

CN6 LCD Connector (Hirose)

Pin	Signal	Pin	Signal
1	LCD VDD(+5V)	2	LCD VDD(+5V)
3	GND	4	GND
5	LCD VDD(+3.3V)	6	LCD VDD(+3.3V)
7	Vcon(optional)	8	GND
9	P0	10	P1
11	P2	12	P3
13	P4	14	P5
15	P6	16	P7
17	P8	18	P9
19	P10	20	P11
21	P12	22	P13
23	P14	24	P15
25	P16	26	P17
27	P18	28	P19
29	P20	30	P21
31	P22	32	P23
33	GND	34	GND
35	SHFCLK	36	FLM(V-SYMC)
37	M/(DE)	38	LP(H-SYNC)
39	ENABKL	40	ENVEE

CN9 LCD Connector (Hirose)

Pin	Signal	Pin	Signal
1	LCD VDD(+5V)	2	LCD VDD(+5V)
3	GND	4	GND
5	LCD VDD(+3.3V)	6	LCD VDD(+3.3V)
7	Vcon(optional)	8	GND
9	P0	10	P1
11	P2	12	P3
13	P4	14	P5
15	P6	16	P7
17	P8	18	P9
19	P10	20	P11
21	P12	22	P13
23	P14	24	P15
25	P16	26	P17
27	P18	28	P19
29	P20	30	P21
31	P22	32	P23
33	GND	34	GND
35	SHFCLK	36	NC
37	NC	38	NC
39	ENABKL	40	ENVEE

CN11 Debug Port Interface

Switches
1 NC
2 NC
3 Tx
4 NC
5 Rx
6 NC
7 NC
8 NC
9 GND
10 NC

CN13 TouchScreen Sensor Connector

Pin	Signal
1	Y-
2	YS-
3	YS+
4	Y+
5	X-
6	XS-
7	XS+
8	X+