PCM-3531 PCI Graphic card PC/104-plus Module Startup Manual

Packing List

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

- 1 PCM-3531
- 1 Start-up manual
- 1 Utility CD
- Optioanl Accessory
- DVI Cable   p/n 1700000243

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

Note 1: For detailed contents of the PCM-3531, please refer to the enclosed CD Disc 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/products/acrobat/readstep2.html(Acrobat is a trademark of Adobe.)

Mechanical and Environmental

- **Dimensions (L x W):** 96 x 90 mm (3.8" x 3.5")
- **Weight:** 0.08kg
- **Operating Temperature:** 0 ~ 60°C(32~140°F)
- **Storage temperature:** -40 ~ 85°C(-40~185°F)
- **Operating Humidity:** 0%~90% relative humity, non-condensing
- **Power Supply Voltage:** 5V and 12V

Specifications

- **Chipset:** ATI RAGE Mobility M6 chipset
- **Video Memory:** 8MB on chip
- **VGA/LCD Function:** Support CRT display, 2 Channels 18/24-bit LVDS, TV-out, DVI interface
- **Dual display combination**: LVDS+CRT, LVDS+TV-out, LVDS+DVI, LVDS+CRT+TV, LVDS+CRT+DVI
- **External Power:** +12V for LCD inverter

Features

Supports 18/24/36/48 bit LVDS Panel up to 2048x1536 resolution

Support TV-Output (up to 1024x768)

Support 2 Channels 18/24-bit LVDS

Support Hardware MPEG-2 Decoder

Support Dual display function

Compatible with PC/104-plus and standard PCI card PCI2.1

Jumpers & Connectors

Connectors on the board link it to external devices, such as hard disk drives, a keyboard or expansion bus connectors. In addition, the board has a number of jumpers that allow you to configure your system to suit your application.

The table below lists the function of each of the jumpers and connectors.

Connectors	
Label	Function
CN1	CRT Connector
CN2	PC/104+ Connector
CN3	DVI Connector
CN4	TV-out
CN5	LVDS Connector
CN6	Backlight Connector
SW1	PCI ID selection
SW2	LVDS panel pixel selection

SW1	PCI ID selection				
1/2	IDSEL	CLK	#REQ	#GNT	#INT
ON/ON	AD20	CLK0	#REQ0	#GNT0	#PINTA
ON/OFF	AD21	CLK1	#REQ1	#GNT1	#PINTB
OFF/ON	AD22	CLK2	#REQ2	#GNT2	#PINTC
OFF/OFF	AD23	CLK3	#REQ2	#GNT2	#PINTD

SW2 LVDS panel pixel selection		
SW2[3:1](LTGIO[2 : 0])	Resolution	
0 0 0		Disable LVDS
0 0 1	800 * 600	1ch 18bit
0 1 0	1024 * 768	1ch 18bit
0 1 1	800 * 600	1ch 24bit
1 0 0	1024 * 768	1ch 24bit
1 0 1	1280 * 1024	1ch 24bit
1 1 0	1280 * 1024	2ch 24bit

Board Layout

Locating connectors
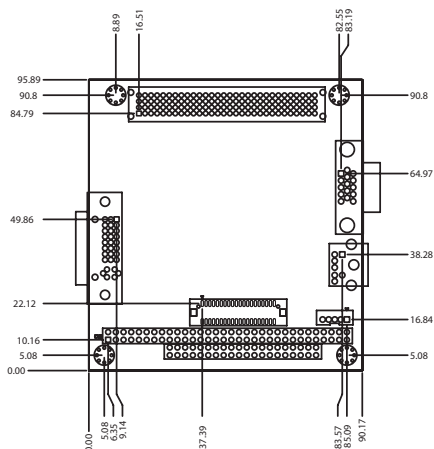
Mechanical Drawing (component side)
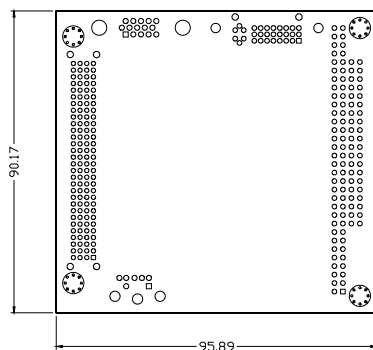
Mechanical Drawing (solder side)