

PCM-261 LVDS/TTL to DVI Module

Startup Manual

Packing list

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

- 1 PCM-261
- 1 Startup manual

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

Note 1: 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.)

Optional Accessory:

- 1700000851:24bit TTL to 24 bit TTL cable
- 1700000840:18bit LVDS to 18 bit LVDS FOR 855GME
- 1700000853:24 bit LVDS to 24 bit LVDS
- 1700000827:18 bit LVDS TO 18 bit LVDS

Specifications

- **Chipset:** Silicon Image Sil 164
- **LVDS Input:** 24,18bit LVDS
- **Resolution:**1024 x 768, 800 x 600, 640 x 480
- **TFT Connector:**Hirose or Pin Header
- **External Power:**+5V
- LCD connector Hirose or pin header

Mechanical and Environmental

- **Dimensions (L x W):** 72 x 62 mm (3.8" x 3.5")
- **Weight:** 30g
- **Operating Temperature:** 0 ~ 60°C(32~140°F)
- **Storage temperature:** -40 ~ 85°C(-40~185°F)
- **Operating Humidity:** 0%~90% relative humidity,non-condensing
- **Power Supply Voltage:** 5V
- **Power Requirements:** 5V @100mA

Features

LVDS/TTL to DVI panel transfer module

Suitable for TFT LCD Panel Adapter

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-261 series Rev. A1.

Part No. 2006026101

2nd Edition
Jan. 2005

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	AT SMALL POWER Connector
CN2	24 pin D-sub
CN3	LCD 40-Pin HIROSE (24 bits)
CN4	TTL 40-Pin HIROSE (24 bits) (PCM-261T-A0A1 only)

CN1

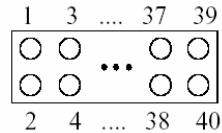
Pin	Pin name
1	NC
2	GND
3	GND
4	5V

CN2

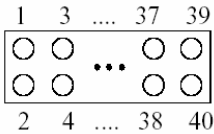
Pin	Pin name
1	TMDS_TX2-
2	TMDS_TX2+
3	GND
4	NC
5	NC
6	DDC CLOCK
7	DDC DATA
8	NC
9	TMDS_TX1-
10	TMDS_TX1+
11	GND
12	NC
13	NC
14	+5V
15	GND
16	NC
17	TMDS_TX0-
18	TMDS_TX0+
19	GND
20	NC
21	NC
22	GND
23	TMDS_TXCLK+
24	TMDS_TXCLK-

CN3

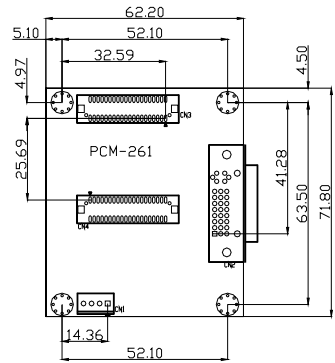
Pin	Pin name	Pin	Pin name
1	NC	2	NC
3	GND	4	GND
5	NC	6	NC
7	24LVDS0-	8	18LVDS0-
9	24LVDS0+	10	18LVDS0+
11	GND	12	GND
13	24LVDS1-	14	18LVDS1-
15	24LVDS1+	16	18LVDS1+
17	GND	18	GND
19	24LVDS2-	20	18LVDS2-
21	24LVDS2+	22	18LVDS2+
23	GND	24	GND
25	24LVDSCLK0-	26	18LVDSCLK0-
27	24LVDSCLK0+	28	18LVDSCLK0+
29	GND	30	GND
31	NC	32	NC
33	GND	34	GND
35	24LVDS3-	36	NC
37	24LVDS3+	38	NC
39	NC	40	NC



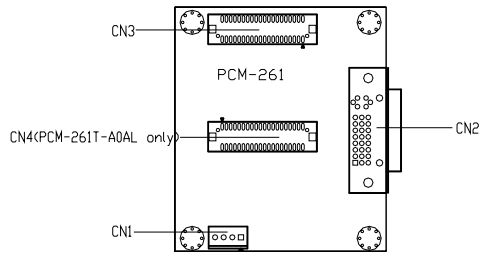
CN4			
Pin	Pin name	Pin	Pin name
1	NC	2	NC
3	GND	4	GND
5	NC	6	NC
7	NC	8	GND
9	PD0	10	PD1
11	PD2	12	PD3
13	PD4	14	PD5
15	PD6	16	PD7
17	PD8	18	PD9
19	PD10	20	PD11
21	PD12	22	PD13
23	PD14	24	PD15
25	PD16	26	PD17
27	PD18	28	PD19
29	PD20	30	PD21
31	PD22	32	PD23
33	GND	34	GND
35	SHFCLK	36	FLM(V-SYNC)
37	M(DE)	38	LP(H-SYNC)
39	NC	40	NC



Board Layout



Dimensions



Component Placement