PCM-3621 PC/104 plus full channels SATA module

Startup Manual

Packing list

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

- 1 PCM-3621
- 1 Startup manual
- 4 Serial ATA HDD data cable (p/n:1700071000)

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.)

Specifications

- **Chipset:** Silicon Image SiI 164
- **SATA Chip:** Silicon Image SiI3114
- **PC/104 plus Expansion:** 104-pin 16 bit PC/104 module connector and 120-pin PCI PC/104 plus module connector
- **PC/104 plus Connector:** Standard PC/104 plus, PC/104 Connect spec (eptconnect)
- **SATA Connector:** COMAX C504C (90 angle)
- **GPIO:** For 4 Activity LEDs

Mechanical and Environmental

- **Dimensions (L x W):** 96 x 90mm
- **Weight:** 30g
- **Operating Temperature:** 0 ~ 60°C(32~140°F)
- **Storage temperature:** -40 ~ 85°C(-40~185°F)
- **Operating Humidity:** 0%~90% ralative humity,non-condensing
- **Power Supply Voltage:** 5V
- **Power Requirements:** 5V @100mA

Features

- Support 4 SATA devices
- Support 2 UDMA 33/66/100 IDE interface to SATA
- Support SATA RAID 0,1
- Provide 8bits of General Purpose I/O (GPIO)
- PC/104 plus expansion connector

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-3621 series Rev. A1.

Part No. 2006362100 1st Edition
Jan. 2005

FCC

This device complies with the requirements in part 15 of the FCC rules: Operation is subject to the following two conditions:
1.This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this device in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense. The user is advised that any equipment changes or modifications not expressly approved by the party responsible for compliance would void the compliance to FCC regulations and therefore, the user's authority to operate the equipment.

Caution!

There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Achtung!

Jumpers & Connectors

Connectors on the board link it to external devices, such as hard disk drives, a keyboard or expansion bus connectors. In addtion, 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**
SA1	SATA CONN
SA2	SATA CONN
SA3	SATA CONN
SA4	SATA CONN
CN1	PC/104 PLUS CONN
CN2	GPIO CONN
J1	Module SLOT Select
J2	GPIO ENABLE

J2: GPIO ENABLE	
Open	GPIO disabled, ROM enabled
Short	GPIO enabled, ROM disabled

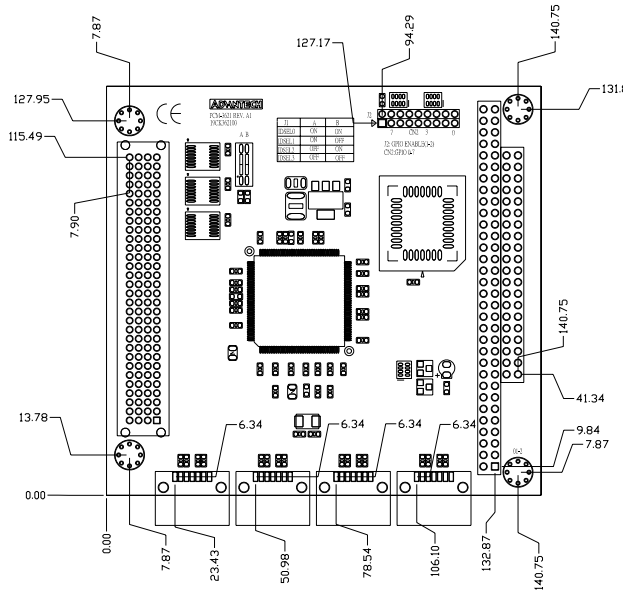
SA1-SA4: SATA CONN			
Pin	**Description**	**Pin**	**Description**
1	GND	2	TX+
3	TX-	4	GND
5	RX-	6	RX+
7	GND		

CN2: GPIO CONN			
Pin	**Description**	**Pin**	**Description**
1	use as J2	2	TX+
3	GPIO7	4	330ohm pull high to 3.3V
5	GPIO6	6	330ohm pull high to 3.3V
7	GPIO5	8	330ohm pull high to 3.3V
9	GPIO4	10	330ohm pull high to 3.3V
11	GPIO3	12	330ohm pull high to 3.3V
13	GPIO2	14	330ohm pull high to 3.3V
15	GPIO1	16	330ohm pull high to 3.3V
17	GPIO0	18	330ohm pull high to 3.3V

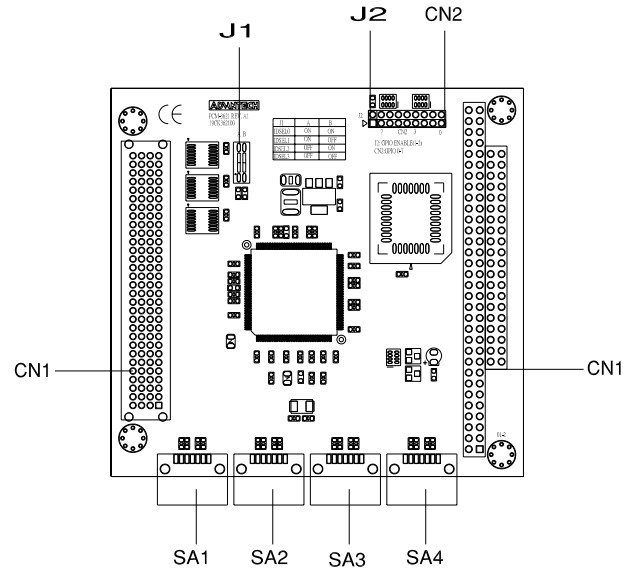
J1: Module SLOT Select

SW		Module Slot	REQ#	GNT#	CLK	IDSEL	INT#
A	B						
ON	ON	1	PCI_REQ#0	PCI_GNT#0	PCI_CLK0	PCI_IDSEL0	PCI_INT#A
ON	OFF	2	PCI_REQ#1	PCI_GNT#1	PCI_CLK1	PCI_IDSEL1	PCI_INT#B
OFF	ON	3	PCI_REQ#2	PCI_GNT#2	PCI_CLK2	PCI_IDSEL2	PCI_INT#C
OFF	OFF	4	PCI_REQ#2	PCI_GNT#2	PCI_CLK3	PCI_IDSEL3	PCI_INT#D

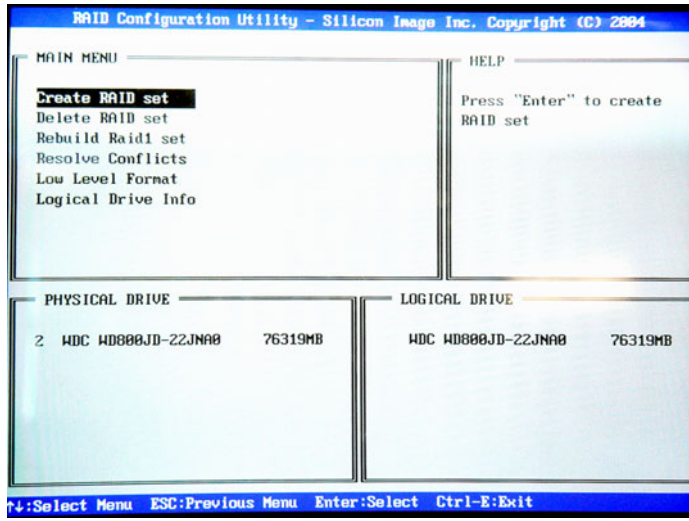
Board Layout



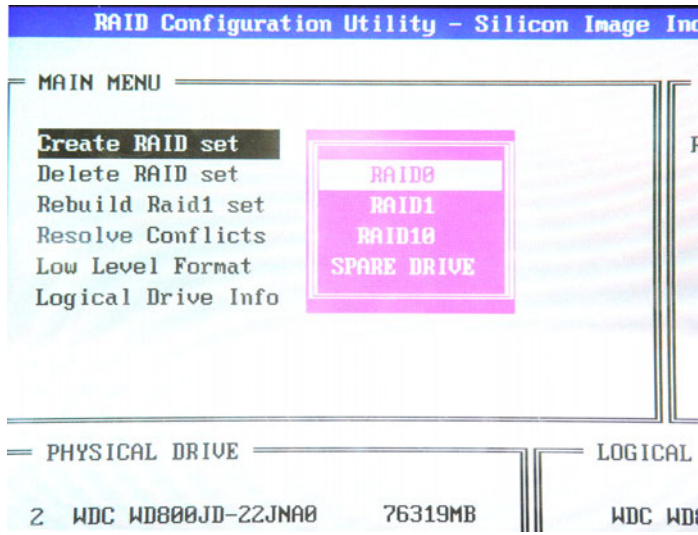
PCM-3621 Dimensions (Component Side)



PCM-3621 Connectors Location (Component Side)



1. Choose " create RAID set "



2. Please choose " enter " , then choose " RAID0 "