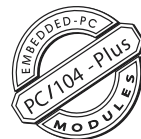


# PCM-3116 PC/104-Plus 2 Slot mini PCI Module



## Startup Manual

### Introduction

The PCM-3116 is a mini PCI interface module that attaches to the PC/104-Plus connector on your CPU card or PC/104-Plus CPU module. The PCM-3116 provides 32-bit performance, and PCI bus capability.

### Packing list

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

- 1 PCM-3116 PC/104 + mini PCI
- 1 Start-up Manual

### Features

#### PCM-3116 PC/104-Plus 2 Slot mini PCI Module

- Support 2 mini PCI devices
- High performance(PC/104-Plus)
- Compliant with PCI v2.1

### Specifications

- miniPCI Slot: 2 Slot
- miniCPU Card: Type III A/B
- Data Bus 32-Bit data Bus (Compliant with PCI Bus Specification 2.1)
- PC/104 Expansion: 104-pin and 120-pin 16/32-bit PC/104-Plus module connector
- PCI interface 3.3V interface ( 5V tolerant)
- Power Requirements: +5V, +/- 5% tolerance on power supply
- Size/Weight: 96mm x 90mm(3.8" x 3.5"), 0.094kg (0.207lb)
- Temperature Operating: 0~60°C(32~140°F) Storage: -40~85°C(-40~185°F)
- Operating Humidity: 0%~90% relative humidity, non-condensing.

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/support>

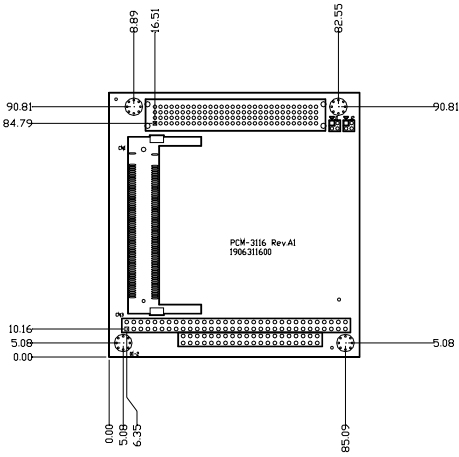
This manual is for the PCM-3116

Part No. 2006311600

1st Edition  
August 2004

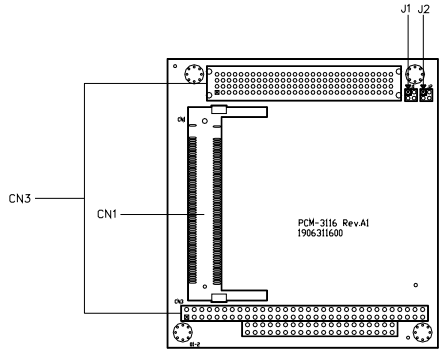
# Mechanical Drawings

## Board Dimensions

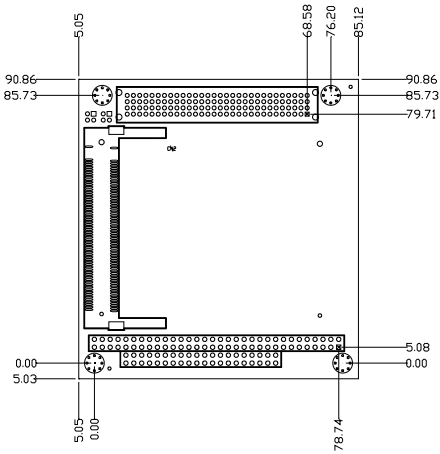


*Board Dimensions(component side)*

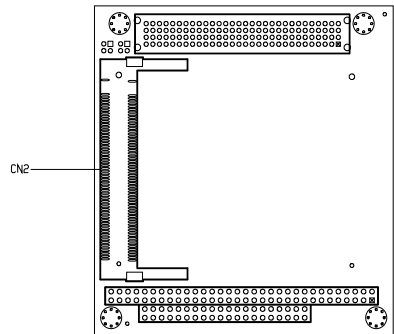
## Locating Connectors and Jumpers



*Locating Connectors(component side)*



*Board Dimensions(solder side)*



*Locating Connectors(solder side)*

## Connecters & Jumpers

The board has a number of jumpers and connectors that allow you to configure your system to suit your application.

The tables below list the function of each jumper and connector.

### Connectors

Label	Function
CN1	MINI_PCI_CONN1
CN2	MINI_PCI_CONN2
CN3	PC104+ and PC104 CONN

CN1/CN2 MINI_PCI_CONN1/MINI_PCI_CONN2			
Pin	Signal	Pin	Signal
1	NC	2	NC
3	NC	4	NC
5	NC	6	NC
7	INC	8	NC
9	NC	10	NC
11	NC	12	NC
13	NC	14	NC
15	NC	16	NC
17	INTB#	18	VCC
19	VCC3	20	INTA#
21	NC	22	NC
23	GND	24	VCC3
25	CLK	26	RESET#
27	GND	28	VCC3
29	REQ#	30	GNT#
31	VCC3	32	GND
33	AD31	34	VCC3
35	AD29	36	NC
37	GND	38	AD30
39	AD27	40	VCC3
41	AD25	42	AD28
43	NC	44	AD26
45	C/BE#	46	AD24
47	AD23	48	IDSEL
49	GND	50	GND
51	AD21	52	AD22
53	AD19	54	AD20
55	GND	56	PAR
57	AD17	58	AD18
59	C/BE#	60	AD16
61	IRDY#	62	GND
63	VCC3	64	FRAME#
65	CLKRUN#	66	TRDT#
67	SERR#	68	STOP#
69	GND	70	VCC3
71	PERR#	72	DEVSEL#
73	C/BE#	74	GND
75	AD14	76	AD15
77	GND	78	AD13
79	AD12	80	AD11
81	AD10	82	GND
83	GND	84	AD9
85	AD8	86	C/BE#
87	AD7	88	VCC3
89	VCC3	90	AD6

CN1/CN2 MINI_PCI_CONN1/MINI_PCI_CONN2			
91	AD5	92	AD4
93	NC	94	AD2
95	AD3	96	AD0
97	VCC	98	NC
99	AD1	100	NC
101	GND	102	GND
103	NC	104	NC
105	NC	106	NC
107	NC	108	NC
109	NC	110	NC
111	NC	112	NC
113	NC	114	GND
115	NC	116	NC
117	NC	118	NC
119	NC	120	NC
121	NC	122	NC
123	NC	124	VCC3

### Jumpers

Label	Function
J1	MINI_PCI_CONN1 AD Selection
J2	MINI_PCI_CONN2 AD Selection

J1 MINI_PCI_CONN1(CN1)			
1-2/3-4	IDSEL	CLK	#REQ
ON/ON	AD20	CLK0	#REQ0
ON/OFF	AD21	CLK1	#REQ1
OFF/ON	AD22	CLK2	#REQ2
OFF/OFF	AD23	CLK3	#REQ3
1-2/3-4	#GNT	#INTA	#INTB
ON/ON	#GNT0	#PINTA	#PINTB
ON/OFF	#GNT1	#PINTB	#PINTC
OFF/ON	#GNT2	#PINTC	#PINTD
OFF/OFF	#GNT3	#PINTD	#PINTA

J2 MINI_PCI_CONN1(CN2)			
1-2/3-4	IDSEL	CLK	#REQ
ON/ON	AD20	CLK0	#REQ0
ON/OFF	AD21	CLK1	#REQ1
OFF/ON	AD22	CLK2	#REQ2
OFF/OFF	AD23	CLK3	#REQ3
1-2/3-4	#GNT	#INTA	#INTB
ON/ON	#GNT0	#PINTA	#PINTB
ON/OFF	#GNT1	#PINTB	#PINTC
OFF/ON	#GNT2	#PINTC	#PINTD
OFF/OFF	#GNT3	#PINTD	#PINTA

The default Jumper setting for J1 and J2:

<b>J1 MINI_PCI_CONN1(CN1)</b>			
<b>1-2/3-4</b>	<b>IDSEL</b>	<b>CLK</b>	<b>#REQ</b>
ON/ON	AD20	CLK0	#REQ0

<b>J2 MINI_PCI_CONN2(CN2)</b>			
<b>1-2/3-4</b>	<b>IDSEL</b>	<b>CLK</b>	<b>#REQ</b>
ON/OFF	AD21	CLK1	#REQ1

Note: Please do not let J1 setting same to J2 setting.