

PCM-225/1 , PCM-225/2

– PC-104 PLUS CARD BUS PCMCIA DRIVE

User's Manual

Introduce:

PCM-225 series contains 2 modules, i.e., PCM-225/2 there are 2 slots Drive and PCM-225/1 one slot drive, for these two model consists of a PC-104 Plus (16/32 bit) interface module with one (two) built-in PCMCIA card slot. The PC-104 Plus interface module can be stacked with other PC-104 Plus modules, mounted on a custom carrier board or stacked directly on a CPU card. One (two) PCMCIA slot is built into the interface board. The PCM-225/1, PCM-225/2 are deal for users who require one (two) PCMCIA interface slot where easy accessibility to the PCMCIA slot is not required. Then PCMCIA slot on the PCM-225/1, PCM-225/2 provides full support for all Type I, Type II and Type III PCMCIA Memory, I/O and ATA hard disk cards. The PCM-225/1, PCM-225/2 PC-104 Plus form factor gives a high speed PCI interface to support the fastest PCMCIA applications/devices, including 16/32bit 3.3V/5V cards , these include memory cards such as SRAM, Flash and ATA Flash ,In addition, most I/O cards are also supported Including fax/modem, LAN, Wireless , IDSN ,SCSI and ATA hard disk drive cards by providing such wide support for the wide array of PCMCIA cards.

Key Features

- Comply with PCMCIA V.2.10 and JEIDA 4.2 Specification
- PCM-225/1 - 1 slots for PC-104 Plus
- PCM-225/2 – 2 slots for PC-104 Plus
- 16-bit Legacy mode support : YES
- PCI way legacy DMA support: YES
- Mix and Match 5V/3.3V PC Card 16/32 Cards and 3.3V CardBus Cards
- 16 bit / 32 bit Data Bus.
- Use T/I 1420 Controller
- Support Hot Swap function.

Specification

- Power Supply Voltage : 3.3V/5V Typical
- Operation Temperature: -20°C — 70°C
- Storage Temperature : -30°C— 85°C
- Relative Humidity : Max 90%
- Dimensions 96mm(L) x 90mm(W) x 15mm(H)

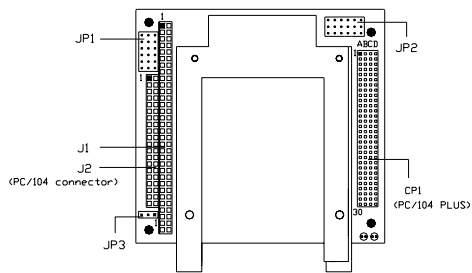
Package Contents

The PCM-225/1 (PCM-225/2) PC-104 plus PCMCIA Card Bus drive includes the following items:

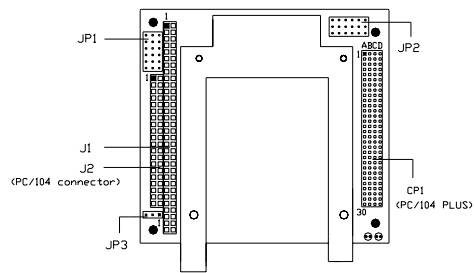
- One PC-104 plus module
(PCM-225 V.1.1)
- One utility diskettes containing device driver. – P-Series for Win 98/2000/Me/NT
- This user's manual

Board Layout and Jumper Settings

The PCM-225/1, PCM-225/2 includes two jumpers, JP1 and JP2, that must be set before installation. These jumpers control the BIOS address.



PCM-225/2



PCM-225/1

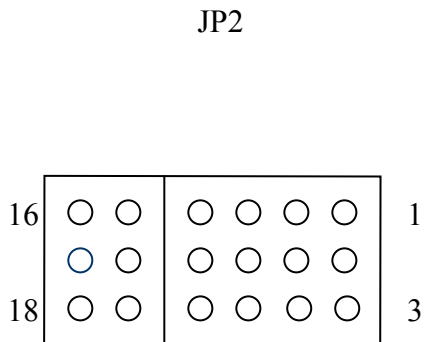
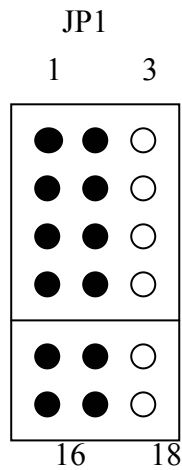
Jumper Setting

	<i>JP1</i>	<i>JP 2</i>	<i>SLOT</i>	<i>ADJUST</i>			
	JMP ADJUST	REQ#	GNT#	PCLK	IDSEL	INT A#	INT B#
PCI 1	JP 1 SHORT LEFT	REQ 0# 1-2, SHORT	GNT 0# 4-5, SHORT	CLK 0 7-8, SHORT	IDSEL 0 10-11, SHORT	INT A 13-14, SHORT	INT B 16-17, SHORT
PCI 2	JP 1 SHORT RIGHT	REQ 1# 2-3, SHORT	GNT 1# 5-6, SHORT	CLK 1 8-9, SHORT	IDSEL 1 11-12, SHORT	INT B 14-15, SHORT	INT C 17-18, SHORT
PCI 3	JP 2 SHORT UP	REQ 2# 1-2, SHORT	GNT 2# 4-5, SHORT	CLK 2 7-8, SHORT	IDSEL 2 10-11, SHORT	INT C 13-14, SHORT	INT D 16-17, SHORT
PCI 4	JP 2 SHORT DOWN	REQ 2# 2-3, SHORT	GNT 2# 5-6, SHORT	CLK 3 8-9, SHORT	IDSEL 2 11-12, SHORT	INT D 14-15, SHORT	INT A 17-18, SHORT

* Following are 16 modes depends on Motherboard please setting Jumper as your own request

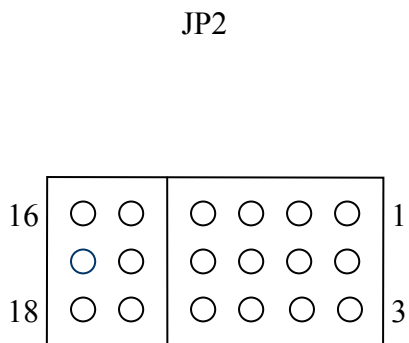
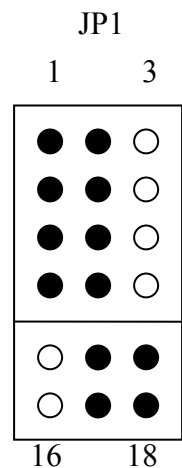
1.

JP 1 SHORT LEFT	REQ 0# 1-2, SHORT	GNT 0# 4-5, SHORT	CLK 0 7-8, SHORT	IDSEL 0 10-11, SHORT	INT A 13-14, SHORT	INT B 16-17, SHORT
-----------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



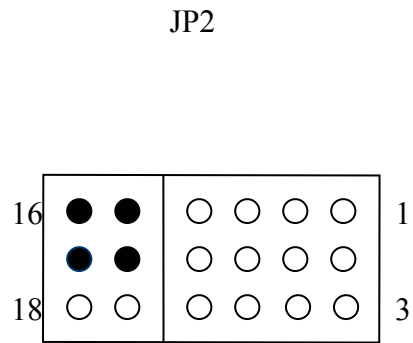
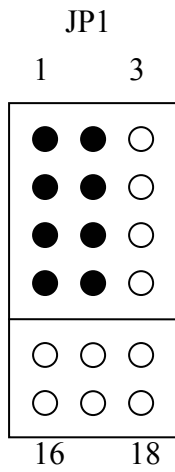
2.

JP 1 SHORT LEFT	REQ 0# 1-2, SHORT	GNT 0# 4-5, SHORT	CLK 0 7-8, SHORT	IDSEL 0 10-11, SHORT	INT B 14-15, SHORT	INT C 17-18, SHORT
-----------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



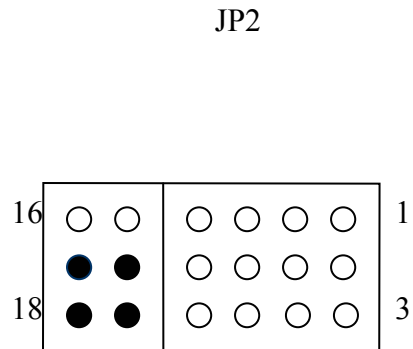
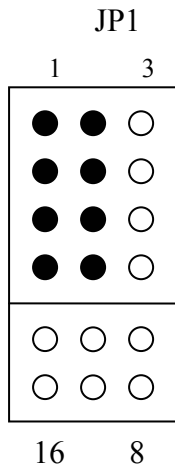
3.

JP 1 SHORT LEFT	REQ 0# 1-2, SHORT	GNT 0# 4-5, SHORT	CLK 0 7-8, SHORT	IDSEL 0 10-11, SHORT	INT C 13-14, SHORT	INT D 16-17, SHORT
--------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



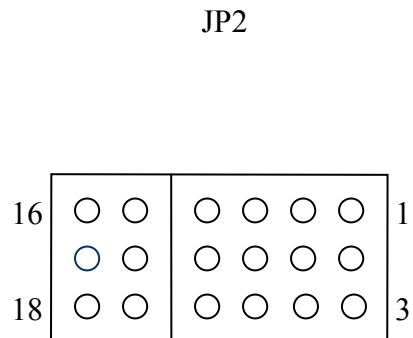
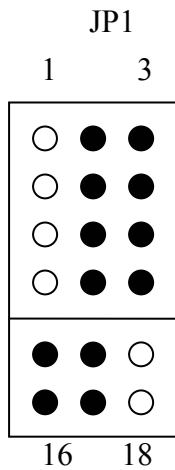
4.

JP 1 SHORT LEFT	REQ 0# 1-2, SHORT	GNT 0# 4-5, SHORT	CLK 0 7-8, SHORT	IDSEL 0 10-11, SHORT	INT D 14-15, SHORT	INT A 17-18, SHORT
--------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



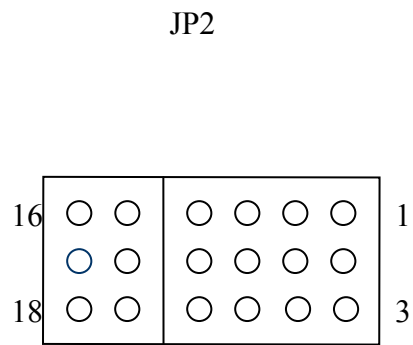
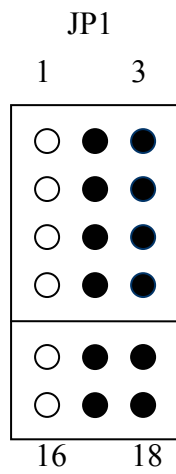
5.

JP 1 SHORT RIGHT	REQ 1# 2-3, SHORT	GNT 1# 5-6, SHORT	CLK 1 8-9, SHORT	IDSEL 1 11-12, SHORT	INT A 13-14, SHORT	INT B 16-17, SHORT
---------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



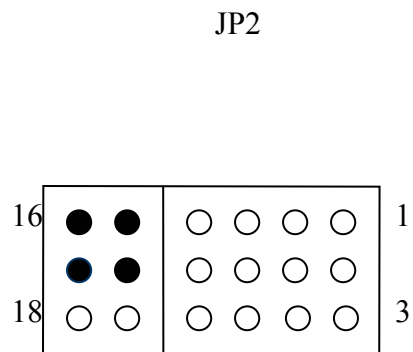
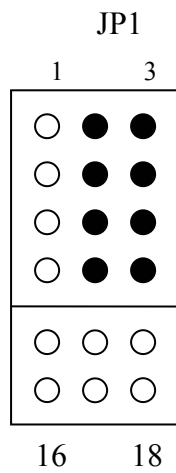
6.

JP 1 SHORT RIGHT	REQ 1# 2-3, SHORT	GNT 1# 5-6, SHORT	CLK 1 8-9, SHORT	IDSEL 1 11-12, SHORT	INT B 14-15, SHORT	INT C 17-18, SHORT
---------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



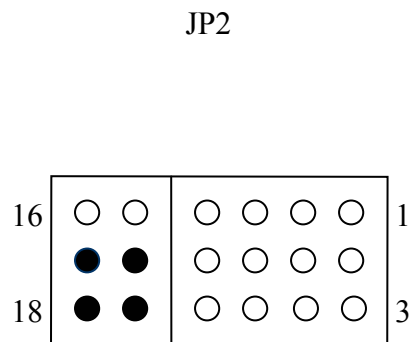
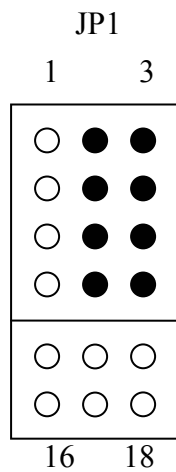
7.

JP 1 SHORT RIGHT	REQ 1# 2-3, SHORT	GNT 1# 5-6, SHORT	CLK 1 8-9, SHORT	IDSEL 1 11-12, SHORT	INT C 13-14, SHORT	INT D 16-17, SHORT
---------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



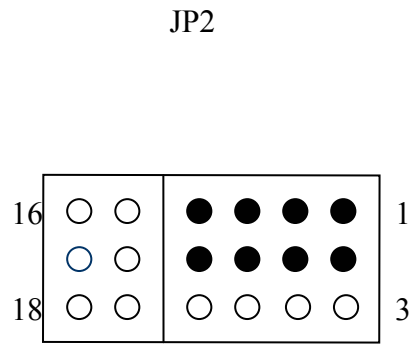
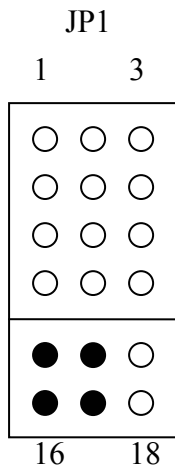
8.

JP 1 SHORT RIGHT	REQ 1# 2-3, SHORT	GNT 1# 5-6, SHORT	CLK 1 8-9, SHORT	IDSEL 1 11-12, SHORT	INT D 14-15, SHORT	INT A 17-18, SHORT
---------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



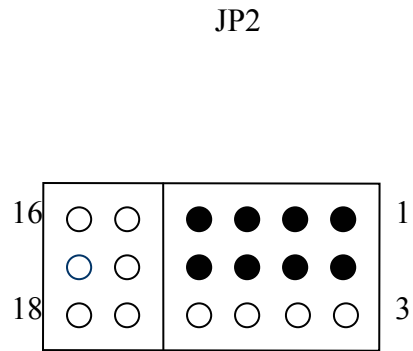
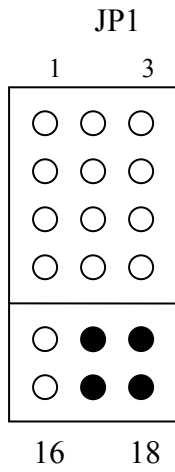
9.

JP 2 SHORT U P	REQ 2# 1-2, SHORT	GNT 2# 4-5, SHORT	CLK 2 7-8, SHORT	IDSEL 2 10-11, SHORT	INT A 13-14, SHORT	INT B 16-17, SHORT
-------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



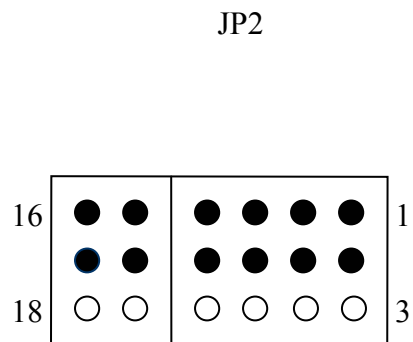
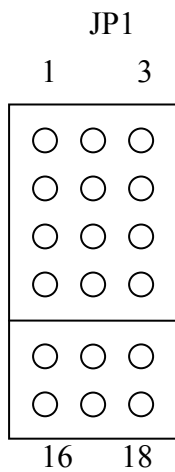
10.

JP 2 SHORT U P	REQ 2# 1-2, SHORT	GNT 2# 4-5, SHORT	CLK 2 7-8, SHORT	IDSEL 2 10-11, SHORT	INT B 14-15, SHORT	INT C 17-18, SHORT
-------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



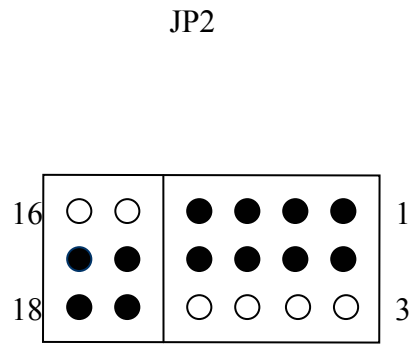
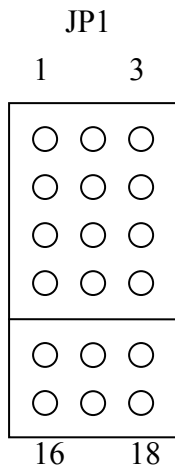
11.

JP 2 SHORT U P	REQ 2# 1-2, SHORT	GNT 2# 4-5, SHORT	CLK 2 7-8, SHORT	IDSEL 2 10-11, SHORT	INT C 13-14, SHORT	INT D 16-17, SHORT
-------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



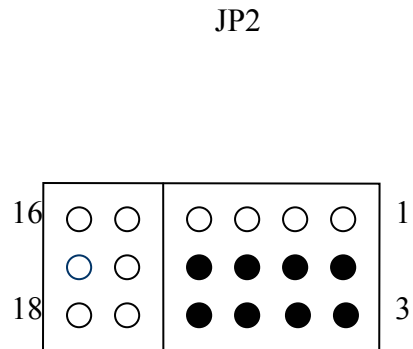
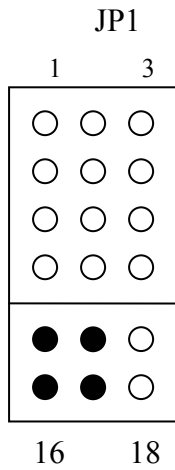
12.

JP 2 SHORT U P	REQ 2# 1-2, SHORT	GNT 2# 4-5, SHORT	CLK 2 7-8, SHORT	IDSEL 2 10-11, SHORT	INT D 14-15, SHORT	INT A 17-18, SHORT
-------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



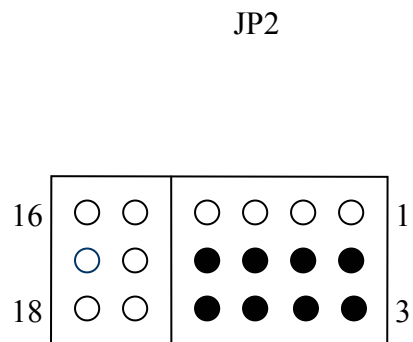
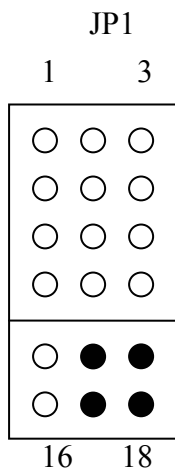
13.

JP 2 SHORT DOWN	REQ 2# 2-3, SHORT	GNT 2# 5-6, SHORT	CLK 3 8-9, SHORT	IDSEL 2 11-12, SHORT	INT A 13-14, SHORT	INT B 16-17, SHORT
--------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



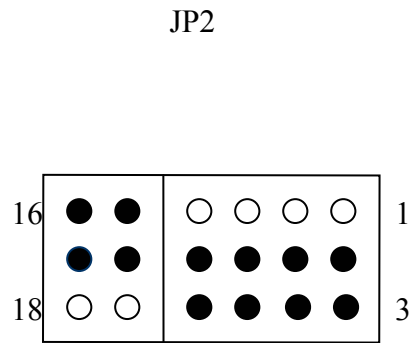
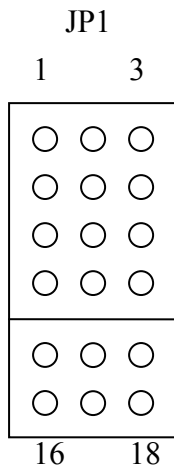
14.

JP 2 SHORT DOWN	REQ 2# 2-3, SHORT	GNT 2# 5-6, SHORT	CLK 3 8-9, SHORT	IDSEL 2 11-12, SHORT	INT B 14-15, SHORT	INT C 17-18, SHORT
--------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



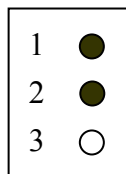
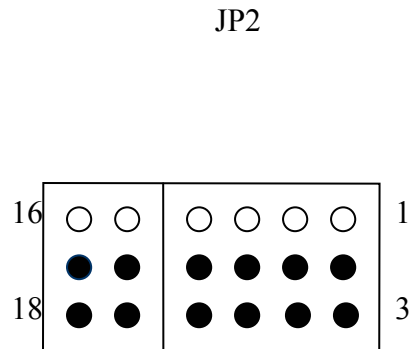
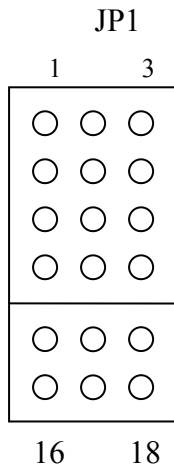
15.

JP 2 SHORT DOWN	REQ 2# 2-3, SHORT	GNT 2# 5-6, SHORT	CLK 3 8-9, SHORT	IDSEL 2 11-12, SHORT	INT C 13-14, SHORT	INT D 16-17, SHORT
--------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



16.

JP 2 SHORT DOWN	REQ 2# 2-3, SHORT	GNT 2# 5-6, SHORT	CLK 3 8-9, SHORT	IDSEL 2 11-12, SHORT	INT D 14-15, SHORT	INT A 17-18, SHORT
--------------------	----------------------	----------------------	---------------------	-------------------------	-----------------------	-----------------------



JP3 IRQ DRIVER
SHORT
1-2 IS NO SERIRQ MUST DRIVER
2-3 The PC104 Plus main board must
Have SERIRQ

Pin Assignment

J3/P3				
Pin	A	B	C	D
1	GND/5.0V KEY	MFUNC3	PCI 5V	AD 0
2	VCCP	AD 2	AD 1	PCI 5V
3	AD 5	GND	AD 4	AD 3
4	CBE#0	AD 7	GND	AD 6
5	GND	AD 9	AD 8	GND
6	AD 11	VCCP	AD 10	—
7	AD 14	AD 13	GND	AD 12
8	—	CBE#1	AD 15	—
9	SERR#	GND	—	PAR
10	GND	PERR#	—	—
11	STOP#	—	LOCK#	GND
12	—	TRDY#	GND	DEVSEL#
13	FRAME#	GND	IRDY#	—
14	GND	AD16	—	CBE#2
15	AD18	—	AD17	GND
16	AD21	AD20	GND	AD19
17	—	AD23	AD22	—
18	IDSEL0	GND	IDSEL1	IDSEL2
19	AD24	CBE#3	VCCP	IDSEL3
20	GND	AD26	AD25	GND
21	AD29	PCI 5 V	AD28	AD27
22	PCI 5 V	AD30	GND	AD31
23	REQ0#	GND	REQ1#	VCCP
24	GND	REQ2#	PCI 5V	GNT0#
25	GNT1#	VCCP	GNT2#	GND
26	PCI 5V	CLK0	GND	CLK1
27	CLK2	PCI 5V	CLK3	GND
28	GND	INTD	PCI 5V	PRST#
29	PCI 12V	INTA	INTB	INTC
30	—	—	—	GND/3.3V KEY

Hardware Installation

To install the PCM-225/1, PCM-225/2 in your system follow the instructions below.

1. Turn off the power to your PC and all peripherals connected to your system.
2. Open your system case. This procedure will vary according to the particular system you own and you should consult with the relevant user's manual for details.
3. Set the jumpers as shown previously.
4. Mount the PCM-225/1 (PCM-225/2) in your system required. You may stack the PCM-225/1 (PCM-225/2) on another PC-104 module using the supports, plug the PCM-225/1 (PCM-225/2) into a custom carrier board, or else mount it directly on a PC-104 Plus CPU card. The one PC-104 connectors (please refer pin assignment) on the bottom of the board fit into the sockets on the device on which you are mounting.
5. Your PCM-225/1 (PCM-225/2) is now installed. Proceed with the software (P-Series) installation.
6. Close your system case.

Your PCM-225/1 (PCM-225/2) is now installed in your system and you should Proceed with your software installation.

P-Series Software Installation (Windows 98/2000/Me/NT)

1. Insert the P-Series version 5.00 diskette into your company's floppy drive and run the setup program either by choosing Start/Run and then typing a:\setup in the Run dialog box or double-clicking on the setup file icon in a Windows Explorer or My Computer window. The P-Series splash screen will appear and then the installation P-Series will start.



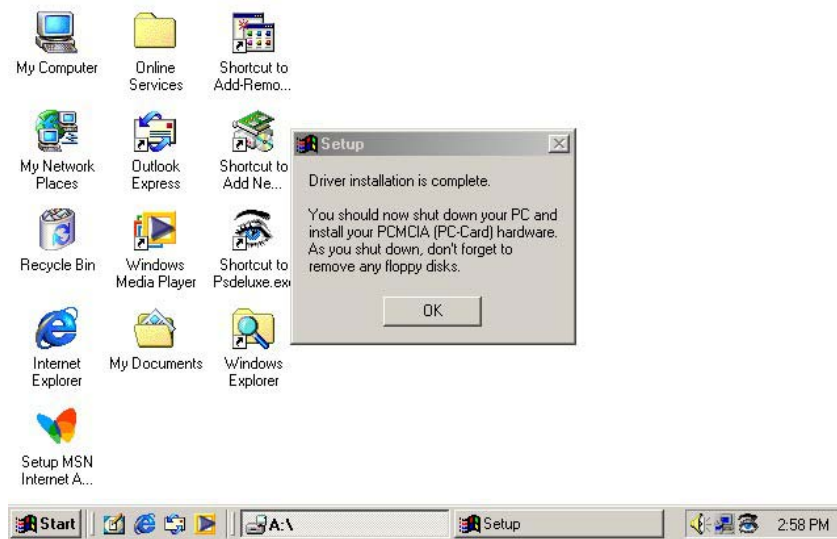
2. Click “Yes” to advance to the next screen.



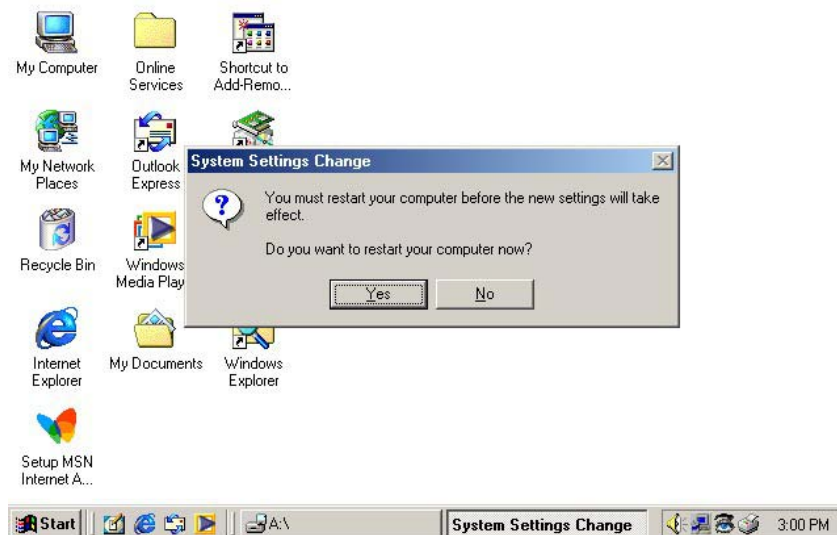
3. Click Next to advance the next screen.



4. Click “OK”



5. You must re-boot your computer in order to complete installation.
Your computer will re-boot.



Inserting a memory card (i.e., ATA Flash or ATA HDD card) into your PCMCIA slot will result in the card being mapped to your computer as a Drive and being assigned a logical drive letter. The following figure Shows a 40 MB ATA HDD card being mapped in Windows Explorer. Then PCMCIA card is assigned letter E.