

# PCM-3115 PC/104-Plus 2 Slot PCMCIA Module



## Startup Manual

### Introduction

The PCM-3115 is a PCMCIA interface module that attaches to the PC/104-plus connector on your CPU card or PC/104-plus CPU module. The PCM-3115 provides 32-bit performance, PCI bus capability, and is fully compliant with PC Card 95/97/98, Card 32 (32 Bit) specifications and PCMCIA V2.1 / JEIDA 4.2 (16 Bit).

The module includes 2 PCMCIA slots. Two LEDs indicate the activity of the PCMCIA card in each slot. The PCM-3115, with its Ricoh Card Bus Controller chipset, brings the latest PCMCIA performance features to EMAC's PC/104 line. This includes low power consumption (hardware suspend) and Microsoft native driver support. The Ricoh chipset, with a substantial list of pretested supported devices, allows for greater all-around compatibility for your PCMCIA device support.

### Packing List

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

- 1 PCM-3115 PC/104 PCMCIA module
- 1 Start-up manual
- CD-ROM or Disks for utility, drivers, and manual (in PDF format)
- 1 warranty certificate

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

*Note 1: For detailed contents of the PCM-3115, please refer to the enclosed CD-ROM 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/Prodindex/acrobat/readstep.html](http://www.adobe.com/Prodindex/acrobat/readstep.html) (Acrobat is a trademark of Adobe.)*

For more information on this and other EMAC products, please visit our website at:

<http://www.emacinc.com>

For technical support and service, please visit our support website at:

<http://www.emacinc.com/support>

This manual is for the PCM-3115

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### Features

#### PCM-3115 PC/104-Plus 2 Slot PCMCIA Module

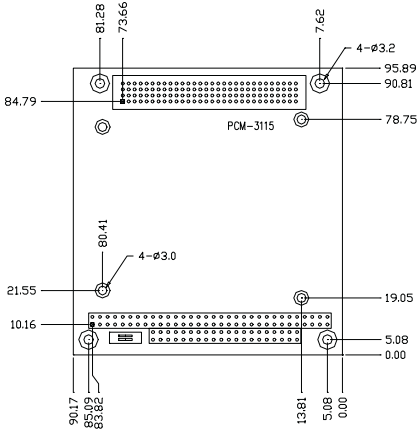
- High-performance (PC/104 PLUS)
- Low Power consumption (Hardware Suspend)
- Complies with PC Card 95/97/98, Card 32 (32 Bit)
- PCMCIA V2.1 / JEIDA 4.2 (16 Bit)
- Accept Type I/II/III PCMCIA cards
- Supports 2 PCMCIA Slots (when Type III card used in Slot 2, Slot 1 will be occupied too)
- Support Plug & Play automatic detection & configuration
- Support Windows NT 4.0, Windows 95/98/2000

### Specifications

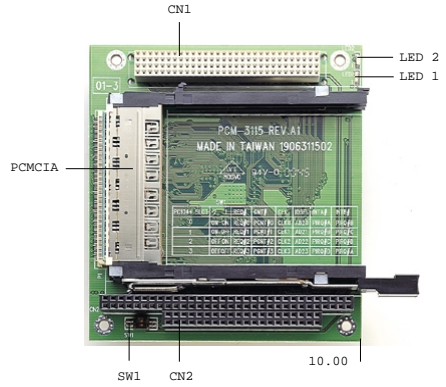
- System Chipset: Ricoh Card Bus Chipset
- Power management: Supports Advanced Configure Power Interface (ACPI)
- Data Bus: 32 Bit
- Bus Speed: Compliant with PCI 2.1 (33 Mhz)
- PCMCIA Slot: 2 Slots
- PCMCIA Card: Accept Type I/II/III PCMCIA Cards
- Plug & Play: Support Plug & Play automatic detection & configuration
- PC/104 expansion: 104-pin and 120-pin 16/32-bit PC104 /Plus module connector
- Operating Voltage: +5 V Only
- Power Consumption: +5 @ 70 mA (Typical)
- Size/Weight: 96 x 90 mm (3.8" x 3.5"). 90 g (0.198 lb)
- Environment: 0 ~ 60° C (operation), -40 ~ 85° (Storage)
- Humanity: 0 ~ 90 %

# Mechanical Drawings

## Board Dimensions



## Locating Connectors and Jumpers



# Jumper Settings

## SW1: PC/104 Plus Module IRQ Setting

	PC104 plus slot	REQ#	GNT#	CLK	ID Address	INT#0	INT#1	INT#2	INT#3
ON		1	2						
	1	REQ#0	GNT#0	CLK0	AD 20	INT#A	INT#B	INT#C	INT#D
ON		2	1						
	2	REQ#1	GNT#1	CLK1	AD 21	INT#B	INT#C	INT#D	INT#A
ON		3	2						
	3	REQ#2	GNT#2	CLK2	AD22	INT#C	INT#D	INT#A	INT#B
ON		4	1						
	4	REQ#2	GNT#2	CLK2	AD23	INT#D	INT#A	INT#B	INT#C

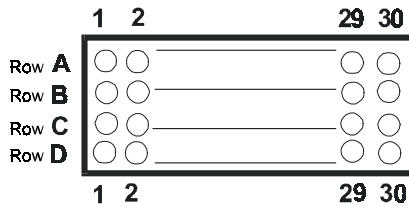
# Connectors and Jumpers

CN1	PC104/Plus Connector (PCI)
CN 2	PC 104 plus connector (ISA)
P1	PCMC2A socket
SW1	PC104 plus slot select
LED1	PCMC2A socket 1 activity
LED2	PCMC2A socket 2 activity

**PC/104+ Bus signal assignments (PCI)**

Pin Number	Signal (CN1)		Signal (CN1)	
	RowA	RowB	RowC	RowD
1	GND/5V/KEY	RESERVED	+5	AD00
2	VI/O	AD02	AD01	+5V
3	AD05	GND	AD04	AD03
4	C/BE0*	AD07	GND	AD06
5	GND	AD09	AD08	GND
6	AD11	VI/O	AD10	M66EN
7	AD14	AD13	GND	AD12
8	+3.3V	C/BE1*	AD15	+3.3V
9	SERR*	GND	SB0*	PAR
10	GND	PERR*	+3.3V	SDONE
11	STOP*	+3.3V	LOCK*	GND
12	+3.3V	TRDY*	GND	DEVSEL*
13	FRAME*	GND	IRDY*	+3.3V
14	GND	AD16	+3.3V	C/BE2*
15	AD18	+3.3V	AD17	GND
16	AD21	AD20	GND	AD19
17	+3.3V	AD23	AD22	+3.3V
18	IDSELO	GND	IDSEL1	IDSEL2
19	AD24	C/BE3*	VI/O	IDSEL3
20	GND	AD26	AD25	GND
21	AD29	+5V	AD28	AD27
22	+5V	AD30	GND	AD31
23	REQ0*	GND	REQ1*	VI/O
24	GND	REQ2*	+5V	GNT0*
25	GNT1*	VI/O	GNT2*	GND
26	+5V	CLK0	GND	CLK1
27	CLK2	+5V	CLK3	GND
28	GND	INTD*	+5V	RST*
29	+12V	INTA*	INTB*	INTC*
30	-12V	Reserved	Reserved	GND/3.3V KEY

\* low active



**: PC/104-Plus connector (PCI bus)**

**PC/104+ Bus signal assignments (ISA)**

Pin Number	Signal (CN2)		Signal (CN2)	
	RowA	RowB	RowC	RowD
1	IOCHCHK*	GND	GND	GND
2	SD7	RESET	SBHE*	MEMCS16*
3	SD6	+5 V	LA23	IOCS16*
4	SD5	IRQ9	LA22	IRQ10
5	SD4	-5V	LA21	IRQ11
6	SD3	DRQ2	LA20	IRQ12
7	SD2	-12V	LA19	IRQ15
8	SD1	ENDXFR*	LA18	IRQ14
9	SD0	+12V	LA17	DACK0*
10	IOCHRDY	(KEY)	MEMR*	DRQ0
11	AEN	SMEMW*	MEMW*	DACK5*
12	SA19	SMEMR*	SD8	DRQ5
13	SA18	IOW*	SD9	DACK6*
14	SA17	IOR*	SD10	DRQ6
15	SA16	DACK3*	SD11	DACK7*
16	SA15	DRQ3	SD12	DRQ7
17	SA14	DACK1*	SD13	+5V
18	SA13	DRQ1	SD14	MASTER*
19	SA12	REFRESH*	SD15	0V
20	SA11	SYSCLK (KEY)	(KEY)	0V
21	SA10	IRQ7	----	----
22	SA9	IRQ6	----	----
23	SA8	IRQ5	----	----
24	SA7	IRQ4	----	----
25	SA6	IRQ3	----	----
26	SA5	DACK2*	----	----
27	SA4	TC	----	----
28	SA3	BALE	----	----
29	SA2	+5V	----	----
30	SA1	OSC	----	----
31	SA0	0V	----	----
32	0V	0V	----	----

\* low active

