

Notice

This guide is designed for experienced users to setup the system in the shortest time.

Safety Precautions

Warning!



Always completely disconnect the power cord from your board whenever you are working on it. Do not make connections while the power is on, because a sudden rush of power can damage sensitive electronic components.

Caution!



Always ground yourself to remove any static charge before touching the board. Modern electronic devices are very sensitive to static electric charges. Use a grounding wrist strap at all times. Place all electronic components on a static-dissipative surface or in a static-shielded bag when they are not in the chassis.

A Message to the Customer

First of all, thank you for purchasing PCM-3794 Rev.B PCI-104 PCMCIA Module. This Quick Installation Guide will help you on the process of the installation. Please read it thoroughly before you start to install it. The product comes with a sheet of warranty for two years assurances except for improper use. Therefore, we strongly suggest you to read and refer to the Quick Installation Guide before any installation. You may visit AAEON website for the latest version of the instruction. Please refer to <http://www.aaeon.com/>

Product Warranty

AAEON Customer Services

All products in AAEON are designed as the strictest specifications to ensure that the products will own the reliable performance in the typical industrial environments. Whether your purchase from AAEON is made to the purpose of the laboratory or the factory facility, you can be assured that every purchase in AAEON will provide the reliability and stability of operation.

Your satisfaction is our primary concern. Here is a guide for AAEON's customer services. Ensure you get the full benefits of our services, please follow the instructions below step by step.

Technical Support

We require you to get the maximum performance from your products. If you run into technical difficulties, we'll be here always for you. For the most frequently asked questions, you can easily find solutions in your product documentation. The guide is for your quick and accurate installation so please refer to it first. We strongly suggest you to read it before asking for a customer service over the phone. If you still cannot find the answer, gather all questions you can think of and have the product at hand before giving a call to your dealer. All dealers of AAEON are well-trained and ready to provide you as many supports as we can. Based on the customer service we've encountered until now, most of problems are minor and able to be

easily solved over the phone. In addition, free-charged technical support is available from AAEON engineers in the office time. We are always pleased to give advice regarding to any installation and operation for AAEON products.

Ordering Information

- PCM-3794-B11
PC/104 Board, 1-slot PCMCIA, PCI-104, Rev.B1.1

Packing List

- Product CD (including Quick Installation Guide in pdf format)
- PCM-3794 Rev.B

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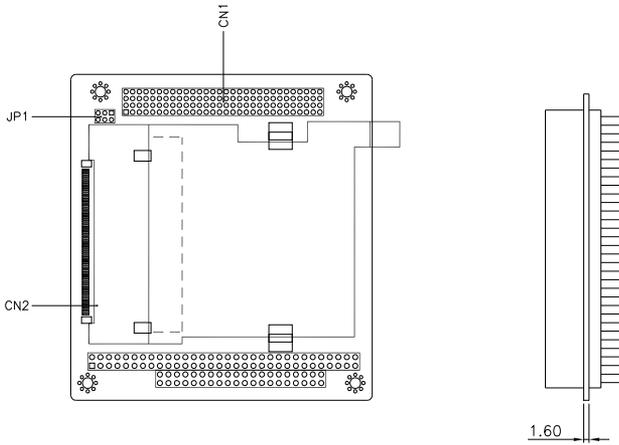
1.1 Features

- BGA 209PIN, PC CARD Controller, TI, PCI1520ZHK
- 1 Slot PCMCIA Socket To Support Type 1/2/3 PCMCIA Card
- +5V/3.3V/12V Input Through PCI-104 Connector
- Compliance With PCMCIA 2.0
- Compliance With PCI-104 interface Defined in PC104_Plus_rev2.3

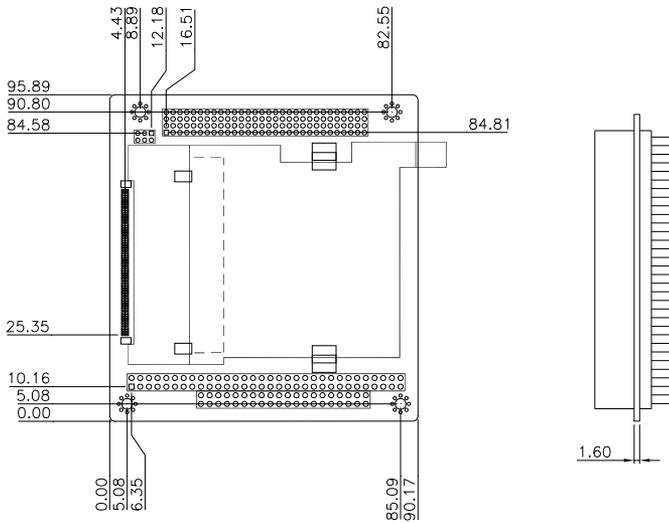
1.2 Specifications

- | | |
|-------------------------|---|
| ● Chipset | TI PCI1520ZHK |
| ● Function | PCMCIA Module Type 2 slot x 1, support type 1,2 and 3, PCMCIA 2.0 |
| ● Interface | Compliance with PCI-104 interface defined in PC/104 ⁺ v2.3 |
| ● Power Requirement | +12V,+3.3V & +5V through PCI-104 connector |
| ● Board Size | 3.78" x 3.54" (96mm x 90mm) |
| ● Operating Temperature | 32°F~140°F (0°C~60°C) |

1.3 Location of Jumpers and Connectors



1.4 Mechanical Drawing



1.5 List of Jumpers

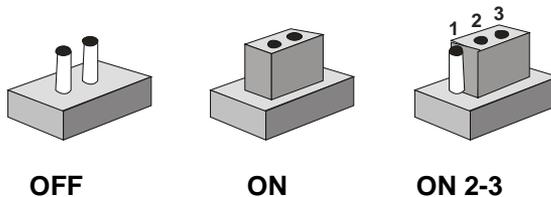
The board has a number of jumpers that allow you to configure your system to suit your application. The table below shows the function of each of the board's jumpers:

Label	Function
JP1	PCI Routing Setting Switch

1.6 Setting Jumpers

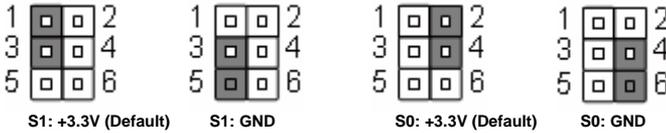
You configure your card to match the needs of your application by setting jumpers. A jumper is the simplest kind of electric switch. It consists of two metal pins and a small metal clip (often protected by a plastic cover) that slides over the pins to connect them. To “close” a jumper you connect the pins with the clip.

To “open” a jumper you remove the clip. Sometimes a jumper will have three pins, labeled 1, 2 and 3. In this case you would connect either pins 1 and 2 or 2 and 3.



A pair of needle-nose pliers may be helpful when working with jumpers. If you have any doubts about the best hardware configuration for your application, contact your local distributor or sales representative before you make any change. Generally, you simply need a standard cable to make most connections.

1.7 PCI Routing Setting Switch (JP1)



JP1	Function
1-3	S1: +3.3V (Default)
3-5	S1: GND
2-4	S0: +3.3V (Default)
4-6	S0: GND

S1 (1-3) and S0(2-4)

Module Slot	S1-S0	IDSEL#	REQ#	GNT#	CLK#	INT1#	INT2#
1		IDSEL0	REQ0#	GNT0#	CLK0	INTA#	INTB#

S1 (1-3) and S0(4-6)

Module Slot	S1-S0	IDSEL#	REQ#	GNT#	CLK#	INT1#	INT2#
2		IDSEL1	REQ1#	GNT1#	CLK1	INTB#	INTC#

S1 (3-5) and S0(2-4)

Module Slot	S1-S0	IDSEL#	REQ#	GNT#	CLK#	INT1#	INT2#
3		IDSEL2	REQ2#	GNT2#	CLK2	INTC#	INTD#

S1 (3-5) and S0(4-6)

Module Slot	S1-S0	IDSEL#	REQ#	GNT#	CLK#	INT1#	INT2#
4		IDSEL3	REQ3#	GNT3#	CLK3	INTD#	INTA#

Note: Because of the arrangement of PCI resource, the numbers of PCI-104 add-on modules are based on the PCI routing. For PC/104 expansions, customers can stack up to two PCM-3794 modules onto PFM-945C through the PCI-104 connector.

1.8 Electrical Specifications for I/O Port

I/O	Reference	Signal name	Rate output
PCI/104 Connector	CN1	VCC	Base on Motherboard
PCMCIA Connector	CN2	VCC	+5V / +3.3V and Base on Motherboard