

# MIO-6255 MIO/160 Module with 2 Cardbus

## Startup Manual

CE FCC

### Introduction

#### The most flexible interface for Embedded Applications

Today is an embedded world, but many standard embedded single board computers cannot 100% meet application specifications because they are not flexible enough to expand and develop the system.

#### A system design short cut

MIO/160 (Module I/O 160) is an open pin definition interface from Advantech. The MIO/160 interface integrates the most popular data buses into a high-density 160-pin connector, including, PCI, USB, DVO, SMBus, LPC, and AC97. With MIO/160, board engineers can speed up system project design and expand the system easily.

### Packing list

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

- 1 MIO-6255
- 1 Start-up manual
- 1 Screw kit

p/n: 9660250000

  - copper stud x 6 pcs

p/n: 1930000058
  - screw x 6 pcs

p/n: 1935030500

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:  
<http://www.adobe.com/products/acrobat/readstep2.html>(Acrobat is a trademark of Adobe.)

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

<http://www.advantech.com>

<http://www.advantech.com/eplatform>

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

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

This manual is for the MIO-6255 series Rev. A1.

Part No.2006625500

1st Edition  
May. 2006

### Specifications

- **Chipset:** Richo R5C486 Cardbus controller
- **2 Cardbus slot:** Accepts type I/II/III PCMCIA Card.  
When type III Card used in slot 2, the slot 1 will be occupied.
- **16-bit Legacy Mode:** YES(3E0/3E2 I/O port) support
- **Data bus:** 32-bit data bus (Compliant with PCI Bus Specification 2.1)
- **PCI Interface:** 3.3V interface(5V tolerant)

### Mechanical and Environmental

- **Dimensions (L x W):** 120mm x 85mm, 4.7" x 3.3"
- **Operating Temperature:** 0 ~ 60°C operation
- **Operating Humidity:** 10%~90% relative humidity, non-condensing

### Features

- Complies with PC Card 95/97/98, Card-32(32bit), PCMCIA V2.1/JEIDA4.2(16bit)
- Support 2 PCMCIA slot, accepts type I/II/III PCMCIA Cards
- MIO/160 interface

# Jumpers & Connectors

Connectors on the board link it to external devices, such as hard disk drives, a keyboard or expansion bus connectors. In addition, 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
CN1	MIO/160 bus
CN2A/CN2B	PCMCIA slot1/slot2

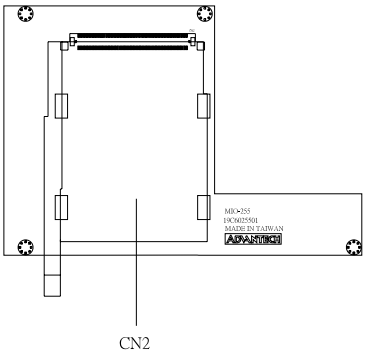
  

CN1	
MIO/160 bus	
Part Number	1654000071
Description	B/B CONN. 80*2P 180D(M) SMD 0.8mm QTE-080-05-F-D-A

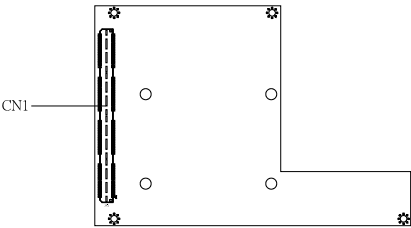
  

CN2A/CN2B	
PCMCIA slot1/slot2	
Part Number	1654268101/1654268102
Description	PCMCIA 68P 90D(M) SMD DUAL SLOTS 1473283-1AMP
Description	PCMCIA 68P 180D(F) SMD DUAL SLOTS 1123215-1AMP

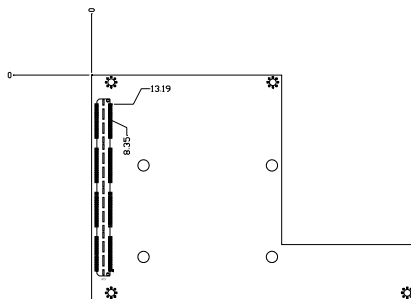
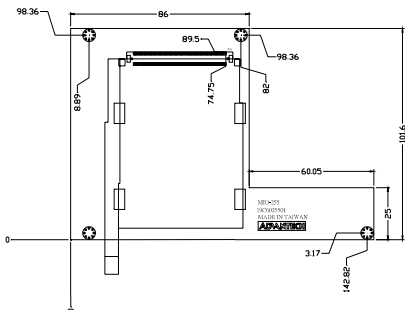
# Board Layout



Locating connector (component side)



Locating connector (solder side)



**Mechanical Drawing (component side)**

**Mechanical Drawing (solder side)**

## 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!



## Achtung!

**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.**