

IDEAmini/MC™

Dual Asynchronous Adapter Card
for the IBM PS/2 Model 50, 60
and 80

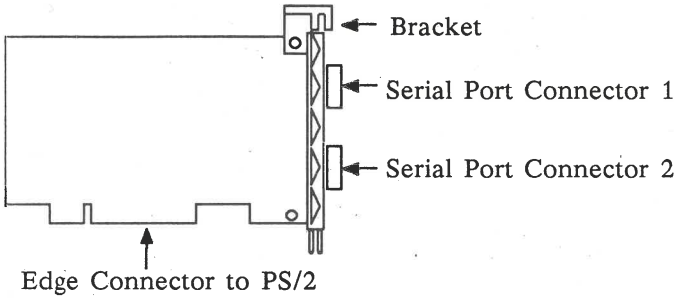


Figure 1: IDEAmini/MC Card

Installation

1. Turn the power **OFF**.
2. Plug the IDEAmni/MC card (Figure 1) into any free expansion socket in the PS/2. Refer to *Installing Options* in your IBM PS/2 manual.
3. Insert the IBM Reference Diskette, replace the IBM cover, and turn the power **ON**.
4. A 165 (system option error) will appear. Press **F1** and let the system boot from the IBM Reference Diskette.
5. At the prompt, press Enter and PgDn, then select **Y** in response to "Automatically configure the system?"
6. Press Enter and remove the IBM Reference Diskette from drive A.

Note: Since your IBM PS/2 Model 50, 60 or 80 already has 1 serial port on the system board, after you have run Automatic Configuration (step 5 above), your Serial Port Connectors 1 and 2 will be configured as SERIAL_2 and SERIAL_3 respectively.

Testing Serial Ports

You can test your serial ports using the Reference Diskette.

Insert your Reference Diskette in drive A and power on. After pressing the Enter key, select 7 "Test the Computer" which sequentially executes the diagnostic programs, including testing the Serial Ports.

Note: Versions 1.00 and 1.02 of the Reference Diskette permit you to go directly from the Main Menu to the Advanced Diagnostic Menu (by pressing Ctrl-A) and to test the Serial Ports without going through the entire sequence of testing. You may be able to test the Serial Ports by doing the following after pressing Ctrl-A:

1. Select 1 (System checkout).
2. Enter Y to confirm system component listing.
3. Select 1 "Run Tests One Time" from the Test Selection Menu.
4. Select "Dual Async Adapter(s)" from the Device Test Menu and enter N.
5. You should see a display similar to the following:

```
"Completed testing"  
1 Dual Async Adapter(s) 12
```

This indicates that both serial ports on the IDEAmi/MC board have passed the test.

Note: If you receive a "Dual Async Adapter 12xx" error message then you should remove the IDEAmi/MC and reinstall it in any other available slot. If you still receive an error message, either your system board or your IDEAmi/MC board is defective. Without the IDEAmi/MC board installed you should run your IBM diagnostic to check the condition of the system unit. If your system unit passes the diagnostic, contact your IDEA sales representative.

Changing Serial Ports

You can change serial port configurations using the Reference Diskette.

1. Insert your Reference Diskette in drive A and power on. After pressing the Enter key, select 3 "Set Configuration Menu."
2. Select 2 "Change Configuration."
3. To change the configuration of any of your serial ports use the up or down arrow key to position the highlighted bar over the field associated with the Serial Port.
4. Press the F5 or F6 function key until you get the setting you want (SERIAL_1 ... SERIAL_8). Be sure that no other serial port has the same number assigned to it. If you change one port to the same setting as another, you will have to revise the setting of one of the ports so that no configuration conflict remains.
5. After changing the setting(s), press the F10 key to save any changes that you have made.

The next time you boot your PS/2, this new configuration will be automatically set up.

Features

Provides two independent RS-232 ports which support signal transmission across 50 feet of cable. The IDEAmulti/MC is fully programmable and supports asynchronous communications ranging from 50 to 19,200 bps. The IDEAmulti/MC features surface mount technology for extra reliability.

Interrupt Settings and I/O Addresses

<u>Serial Ports</u>	<u>Interrupt</u>	<u>I/O Address</u>
SERIAL_1	IRQ4	03F8h
SERIAL_2	IRQ3	02F8h
SERIAL_3	IRQ3	3220h
SERIAL_4	IRQ3	3228h
SERIAL_5	IRQ3	4220h
SERIAL_6	IRQ3	4228h
SERIAL_7	IRQ3	5220h
SERIAL_8	IRQ3	5228h

Serial Number

Please turn your card to the component side. You will find the serial number along the top edge. You can also see the serial number on your IDEAmimi/MC box. Record this number NOW on both your warranty card and on the following line in this manual.

Serial Number:

Warning

IDEAssociates

FCC ID: E3W5NHYPRMC

Certified to comply with the limits for a Class B computing device pursuant to Subpart J of Part 15 of FCC Rules. See Instructions if interference to radio reception is suspected.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the computer with respect to the receiver.
- Move the computer away from the receiver.
- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems."

The booklet is available from the US Government Printing Office, Washington, DC 20402, Stock No. 004000003454.

NOTE: External cables not supplied by the manufacturer of this equipment must be shielded to maintain compliance with the FCC rules.

IDEAssociates, Inc.

Limited Warranty

IDEAssociates, Inc., guarantees this IDEA Product to be in good working order for a period of 1 year from the date of purchase from IDEA or an authorized IDEA dealer. If this Product fails to be in good working order at any time during this one year warranty period, IDEA will, at its option, repair or replace this product at no additional charge except as set forth below. Repair parts and replacement products will be furnished on an exchange basis and will be either reconditioned or new. All replaced parts and products become the property of IDEAssociates. This limited warranty does not include service to repair damages to the product resulting from accident, disaster, misuse, abuse, or non-IDEA modification of the product.

Limited Warranty service can be obtained by delivering the product during the one year warranty period to an authorized IDEA dealer or by sending the product to IDEAssociates. IDEAssociates will not accept products without a Materials Return Authorization (MRA) number issued by its Customer Support Department, with a proof of purchase date. If this product is delivered to IDEA by mail, you agree to insure the product or assume risk of loss or damage in transit, to prepay shipping charges to the warranty service location and to use the original shipping container or equivalent.

ALL EXPRESS AND IMPLIED WARRANTIES FOR THIS PRODUCT INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO A PERIOD OF 1

Continued

YEAR FROM THE DATE OF PURCHASE, AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THIS PERIOD. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

IF THIS PRODUCT IS NOT IN GOOD WORKING ORDER AS WARRANTED ABOVE, YOUR SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT AS PROVIDED ABOVE. IN NO EVENT WILL IDEA BE LIABLE TO YOU FOR ANY DAMAGES, INCLUDING ANY LOST PROFITS, LOST SAVINGS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF OR INABILITY TO USE SUCH PRODUCT, EVEN IF IDEA OR AN AUTHORIZED IDEA PERSONAL COMPUTER DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

To obtain Limited Warranty coverage, you must complete and return the enclosed Warranty Card.

Customer Support Information

Telephone Support

If you have any problems using our product, please follow these steps before contacting our technical support staff.

1. Complete the following checklist:

- Computer brand name _____
Model number _____
RAM (memory) _____ bytes
Operating system (name and version, e.g., P.C.-DOS
version 2.0)

- Manufacturer and model number of:
Video adapter board _____
Printer/Plotter _____
Expansion RAM board _____
Hard disk system _____
Modem _____
Other _____

2. Be sure you can answer the following questions:

- Did the card ever work properly? If so, have you changed anything in your operating environment?
- Did any error messages appear? If so, what were they?
- What is the exact sequence of steps required to produce the problem?

3. With your computer on and the card installed, call the dealer from whom you bought the product. If there is a program which is not working as expected, also have that program installed. If the dealer is unable to assist you, call IDEA Technical Support at (800) 343-0056. In Massachusetts, call (508) 663-6878.

Repair Policy

If your product is still under the original one year limited warranty, IDEA will repair or replace it at no charge. If the product is out of the warranty period, IDEA will repair it and charge you on a time and materials basis.

If you are having problems with your IDEA product, take the following steps:

1. Go through the checklist above.
2. Call your dealer for assistance.
3. If your dealer is not able to provide a solution, call the IDEA Technical Support Department at (800) 343-0056. In Massachusetts, call (508) 663-6878. (Be sure that you have the serial numbers from your IDEA hardware.) If the Technical Support representative determines that your product requires factory service, you will be issued a Materials Return Authorization (MRA) number. IDEA will not accept returned products without an MRA number.
4. Box the product in the original shipping container or other secure package. Write your MRA number clearly on the outside of the box. For all warranty repairs, enclose a copy of the original purchase receipt as proof of date of purchase.
5. Ship by the most economical means to:
IDEAssociates, Inc.
MRA # _____
29 Dunham Road
Billerica, MA 01821

Once your product has been repaired, IDEA will return it to you by UPS or the most economical carrier at IDEA's expense.

Warranty Card

Please complete and promptly return the enclosed warranty card. The warranty card should be filed by the party who installs the IDEA product.

IDEAssociates™
The Leader in PC Technology.