



*Personal Computer
Hardware Reference
Library*

**Technical
Reference**
Options and Adapters
Volume 1

6137804



*Personal Computer
Hardware Reference
Library*

**Technical
Reference
Options and Adapters
Volume 1**

Revised Edition (April 1984)

The following paragraph does not apply to the United Kingdom or any country where such provisions are inconsistent with local law: International Business Machines Corporation provides this manual "as is," without warranty of any kind, either expressed or implied, including, but not limited to the particular purpose. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this manual at any time.

This product could include technical inaccuracies or typographical errors. Changes are made periodically to the information herein; these changes will be incorporated in new editions of the publication.

It is possible that this material may contain reference to, or information about, IBM products (machines or programs), programming, or services that are not announced in your country. Such references or information must not be construed to mean that IBM intends to announce such IBM products, programming, or services in your country.

Products are not stocked at the address below. Requests for copies of this product and for technical information about the system should be made to your authorized IBM Personal Computer dealer.

The following paragraph applies only to the United States and Puerto Rico: A Reader's Comment Form is provided at the back of this publication. If the form has been removed, address comments to: IBM Corp., Personal Computer, P.O. Box 1328-C, Boca Raton, Florida 33432. IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligations whatever.

Federal Communications Commission Radio Frequency Interference Statement

Warning: The equipment described herein has been certified to comply with the limits for a Class B computing device, pursuant to Subpart J of Part 15 of the FCC rules. Only peripherals (computer input/output devices, terminals printers, etc.) certified to comply with the Class B limits may be attached to the computer. Operation with non-certified peripherals is likely to result in interference to radio and TV reception. If peripherals not offered by IBM are used with the equipment, it is suggested to use shielded grounded cables with in-line filters if necessary.

CAUTION

The product described herein is equipped with a grounded plug for the user's safety. It is to be used in conjunction with a properly grounded receptacle to avoid electrical shock.



Preface

The options and adapters manual is the second part of the *Technical Reference* publication. It is designed to be used in conjunction with any of the *Technical Reference* system unit manuals.

The information in this publication is for reference, and is intended for hardware and program designers, programmers, engineers, and anyone else with a knowledge of electronics and/or programming who needs to understand the design and operation of the options and adapters available for the IBM Personal Computer family of products.

This manual is modular in format, with each module providing information about a specific option or adapter available for the IBM Personal Computer family of products. Modules having a large amount of text contain individual indexes.

The modules are grouped by type of device. To find a specific module:

1. Locate the full length hard tab with the type of device (Displays, Printers, Storage Devices, etc.) printed on it that describes the option or adapter you need information about.
2. Open the book to that section.
3. Leaf through that section to find the proper module.

The front matter of this manual also provides a "System to Adapter Compatibility Chart," to identify the adapters supported by each system, and an "Option to Adapter Compatibility Chart," to identify the options supported by each adapter.

Notes:



System to Adapter Compatibility Chart

The following chart identifies the adapters supported by each system.

	IBM Personal Computer	IBM Personal Computer XT	IBM Portable Personal Computer	IBM Personal Computer AT	IBM Expansion Unit
64KB Memory Module Kit	Yes	Yes	Yes	No	No
64/256KB Memory Expansion Option	Yes	Yes	Yes	No	No
128KB Memory Expansion Option	No	No	No	Yes	No
256KB Memory Expansion Option	Yes	Yes	Yes	No	No
512KB Memory Expansion Option	No	No	No	Yes	No
Monochrome Display and Printer Adapter	Yes	Yes	No	Yes	No
Color/Graphics Monitor Adapter	Yes	Yes	Yes	Yes	No
Printer Adapter	Yes	Yes	Yes	No	Yes
5 1/4 inch Diskette Drive Adapter	Yes	Yes	Yes	No	No
Fixed Disk Drive Adapter	Yes	Yes	No	No	Yes

System to Adapter Compatibility Chart (Part 1 of 2)

August 24, 1984

	IBM Personal Computer	IBM Personal Computer XT	IBM Portable Personal Computer	IBM Personal Computer AT	IBM Expansion Unit
Fixed Disk and Diskette Adapter	No	No	No	Yes	No
Asynchronous Communications Adapter	Yes	Yes	Yes	No	Yes
Serial/Parallel Adapter	No	No	No	Yes	No
Binary Synchronous Communications Adapter	Yes	Yes	Yes	Yes	Yes
Synchronous Data Link Control (SDLC) Adapter	Yes	Yes	Yes	Yes	Yes
Cluster Adapter	Yes	Yes	Yes	Yes	Yes
Game Control Adapter	Yes	Yes	Yes	Yes	Yes
Prototype Card	Yes	Yes	Yes	No	Yes
Prototype Adapter	No	No	No	Yes	No
Enhanced Graphics Adapter	Yes	Yes	No	Yes	No
Professional Graphics Controller	No	Yes	No	Yes	Yes
GPIB Adapter	Yes	Yes	Yes	Yes	Yes
Data Acquisition Adapter	Yes	Yes	Yes	Yes	Yes
P C Network	Yes	Yes	Yes	Yes	No

System to Adapter Compatibility Chart (Part 2 of 2)

Option to Adapter Compatibility Chart

Because some adapters perform multiple functions, the following chart identifies the options supported by each adapter.

	Slimline Diskette Drive	Double Sided Diskette Drive	5 1/4" Diskette Drives	High Capacity Diskette Drive	Fixed Disk Drive	20MB Fixed Disk Drive	Enhanced Color Display	Monochrome Display	Color Display	Graphics Printer	Compact Printer	Color Printer	RF Modulator	Light Pen	Joystick
5 1/4" Diskette Drive Adapter	X	X													
Fixed Disk Drive Adapter					X										
Fixed Disk and Diskette Drive Adapter	X	X		X											
Color Graphics Monitor Adapter						X	X					X	X		
Monochrome Display and Printer Adapter							X	X		X					
Enhanced Graphics Adapter					X	X	X						X		
Printer Adapter									X	X					
Asynchronous Communications Adapter										X					
Serial/Parallel Adapter									X	X	X				
Game Control Adapter															X

X - Adapter Compatible with Option

Notes:

