



20X-8X Portable Stereo CD-ROM

These drives are designed for the desktop or mobile user who demands the power of CD-ROM along with the convenience of portability. One model is even equipped with removable speakers.

OPTIONS
by IBM

At a glance...

Key characteristics:	20X-8X Portable Stereo CD-ROM
Estimated Reseller ⁷	\$575.00

Features & Benefits

Plug and Play - Supports PCMCIA/ATA standard interface for easy Plug and Play installation.

Choice of power sources - Comes with choice of three power sources: a rechargeable battery pack, AC adapter and slot of AA batteries.

Built-in removable speakers - Allow for audio CD listening.

Hot pluggable - Eliminates the need to power down your system when attaching drive.

Stereo features - Include 16-bit stereo audio, FM music synthesizer, joystick/midi port and support for Windows 95 game API.

General Information

Administrative Information

Part number	Description
1969011	8X MIN/20X MAX PORT STEREO CDR

IBM product family:	IBM Options
Product series:	Storage
Group:	CD-ROM Drives
Sub-group:	
Model name:	20X-8X Portable Stereo CD-ROM
Worldwide part number:	1969011
Type / Model:	1969-011
Announce status:	Announced
Announce date:	09/23/97
General availability date:	10/17/97
IBM announcement number:	PCC97-435
Withdrawal date:	
Alternative models:	--
Most recent change date:	09/23/97
Reason for change:	Announcement
Countries of origin:	United States, Scotland

Ship group:

CD-ROM drive
Speakers (2)
Speaker clips (2)
Speaker cable (2)
NiCd battery pack
AC adapter ASM
AC line cord
Interface cable
PC Card assembly
Installation Guide
Setup diskette
Laser Safety publication

Warranty

Limited Warranty period and type³:

One year Customer Carry-in Exchange

Technical Information

Compatibility

(as known at time of announcement)

Restrictions:

Variable read rate. Actual playback speed will vary and is often less than the maximum possible.

Hardware prerequisites:

System unit:

ThinkPad 310, ThinkPad 315, ThinkPad 365, ThinkPad 380, ThinkPad 385, ThinkPad 560, ThinkPad 760, ThinkPad 765, ThinkPad 770, SelectaDock I, II, III. This drive supports attachment to industry standard systems that adhere to the PCMCIA 2.01 Type II standard and have Card and Socket Services 2.0 installed.

Adapters:

--

Mounting kit etc.:

--

Supported software:

Microsoft Windows 3.1, Microsoft Windows 95, IBM OS/2 Warp, DOS 6.2

Product approvals/certifications⁴:

C-tick (Australia), CE MARK, cUL, FCC Class B (US), UL

Characteristics

CD-ROM speed:

20X-8X

CD-ROM formats:

--

Audio CD support:

16-bit stereo, FM music synthesizer, Joystick/MIDI port, Stereo speakers (clip-on/detachable)

Interface bus:

PCMCIA

Drive interface type:

PCMCIA

Data width:

--

Form factor:

PCMCIA Type II

Storage capacity:

600MB

Cache size:

512KB

Read/write head technology:

--

Cables:

Speaker cables (2)

Average access time:

--

Average data transfer rate:

0.65MB/s; 3MB/s

Average bus transfer rate:

--

Power consumption:

Other:

-Plug and Play support, hot-pluggable
-Three sources for power: AA batteries, rechargeable NiCd batteries and standard AC power.
-Average Access Random: 150ms
-Average Access Full-Stroke: 250ms
-Data Transfer Rate for AC operation (MB/s): 1.3-3 (8.6X - 20X)
-Data Transfer Rate Battery Operation (MB/s): 0.65-1.5 (4.3X - 10X)
-Support for Windows 95 game API

Weight & dimensions

Note⁶

Weight:

--

Height:

1.28inches

Width:

5.14inches

Depth:

8.01inches

Operating Temperature (C) (low; high): 5; 40

Relative Humidity (%) (low; high):

20; 80

IBM Legal and Product Specific Notices

©International Business Machines Corporation 1996. All Rights Reserved.

IBM Personal Computer Company
Department 2W6A
3039 Cornwallis Rd.
Research Triangle Park, NC 27709

General Notes

All the part numbers referenced in this publication are product part numbers and not service part numbers.

The following paragraph does not apply to the United Kingdom or any country where any such provisions are inconsistent with local law:

International Business Machines Corporation provides this publication as is without warranty of any kind, either express or implied, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This publication could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of this publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time. IBM reserves the right to alter specifications and other product information without notice. It is your responsibility to obtain the latest information.

It is possible that this publication may contain references to, or information about, IBM products (machines and 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.

Other part numbers in addition to those listed in this document may be required to support a specific device or function.

The following terms are trademarks or registered trademarks of IBM Corporation in the United States or other countries or both: IBM Marks - IBM, ThinkPad, Aptiva, PC 300, PC 700, ServerGuide, HelpCenter, HelpWare, NetFinity, OS/2, Microchannel, FlowThru, TrackPoint. Microsoft, Windows, and the Windows 95 logo are trademarks of Microsoft Corporation. UNIX is a registered trademark in the United States and other countries licensed exclusively through X/Open Company Limited. C-bus is a trademark of Corollary, Inc. Trinitron is a trademark of the Sony Corporation. Other company, product, and service names may be trademarks or service marks of others.

Unless otherwise stated, IBM makes no representations or warranties with respect to non-IBM products. Support (if any) for the non-IBM products is provided by the third party, not IBM.

This IBM equipment is subject to applicable rules and regulations of the United States Federal Communication Commission (FCC).

Product Specific Notes

1. When referring to hard drive capacity, MB stands for million bytes and GB stands for billion bytes. Total user-accessible capacity may vary depending on operating environments.
2. Processor speeds shown indicate processor's internal clock speed. Application speed will be less.
3. For terms and conditions or copies of IBM's limited warranty, call 800-772-2227 in the U.S. Limited warranty includes International Warranty Service in those countries where this statement of product is sold by IBM or IBM Business Partners (registration required).
4. Energy Star compliance: The EPA, as a matter of policy, does not endorse any particular company or its products.
5. Battery Life (and recharge times) will vary based on screen brightness, applications, features, power management, battery conditioning and other references. CD-ROM or hard disk drive usage may also have a significant impact on battery life.
6. Actual specifications may vary slightly depending on features and components.
7. Unless otherwise indicated, prices shown are estimated reseller prices to end users. Reseller prices may vary. IBM reserves the right to change prices and product specifications and to discontinue marketing products without notice.
8. Response time will vary depending on the number and nature of calls received.