



Tech Info Library

AppleCD 1200i CD-ROM Drive: Specifications (9/96)

Revised: 11/14/96
Security: Everyone

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TOPIC -----

This article contains the specifications for the AppleCD 1200i, an internal 8x-speed CD-ROM drive included with some Macintosh computers.

DISCUSSION -----

Disc diameter
=====
120 millimeters (5.25 inches) and 80 mm

Scanning velocity
=====
1.2-1.4 meters per second (normal speed)

Rotation speed (varies over radius)
=====
Normal speed

approximately 530 to 230 rpm

Double speed

approximately 1060 to 460 rpm

Eight-times speed

approximately 4240 to 1840 rpm

Latency (average) (varies over radius)
=====

Normal speed

approximately 55 to 130 milliseconds (ms)

Double speed

approximately 27.5 to 65 ms

Eight-times speed

approximately 6.88 to 16.25 ms

Blocks per rotation

=====

approximately 8.4 to 19.5 variable

Average access time (typical)

=====

Normal speed

380 ms

Double speed

270 ms

Eight-times speed

160 ms

Data

====

Data capacity

* 656 MB, Mode 1

* 748 MB, Mode 2

Number of blocks per disc

336,150

Data per block

* 2048 bytes, Mode 1

* 2336 bytes, Mode 2

Address description

Minutes, seconds, blocks

Audio capacity

=====

Playing time

74 minutes, 42 seconds

Modes supported

=====

Audio CD

CD-ROM

Modes 1 and 2

CD-ROM XA

Mode 2, Forms 1 and 2

CD-I

Mode 2, Forms 1 and 2

Photo CD

Single session and multisession

Video CD

Data streaming and transfer rates

=====

Blocks per second

* Normal speed 75

* Double speed 150

* Eight-times speed 600

User kilobytes (K) per second

* Normal speed

- 150K, Mode 1

- 171.1K, Mode 2

* Double speed

- 300K, Mode 1

- 342.2K, Mode 2

* Eight-times speed

- 1200K, Mode 1

- 1368.8K, Mode 2

SCSI bus burst rate (typical)

* Asynchronous: 5.0 MB per second

* Synchronous: 5.0 MB per second

Power consumption (typical)

=====

* +5 V DC: 350 milliamperes (mA)

* +12 V DC: 300 mA

Laser

=====

Type

Semiconductor GaAlAs laser

Wavelength

770 to 795 nanometers

Output power

0.2 to 0.6 milliwatts

Beam divergence

55 deg.

Article Change History:

20 Sep 1996 - Added product name and keyword.

02 Aug 1996 - Changed distribution status.

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