



# Tech Info Library

## AppleCD 300i Plus Drive: Specifications (Discontinued)

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TOPIC -----

This article provides specifications for the AppleCD 300i Plus internal CD-ROM drive.

DISCUSSION -----

### Playback Medium

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- 12 cm optical disc (any CD-ROM or audio compact disc is compatible) tray loading, no caddy required.

### Capacity

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- Mode 1: 656MB
- Mode 2: 748MB
- Recording surfaces: 1
- Data/block (available to user):
  - Mode 1: 2048 bytes
  - Mode 2: 2336 bytes
- Blocks per disc: more than 270,000

### Audio Playback

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- Playing time: more than 1 hour
- Frequency response: 20 to 20,000 Hz

### Characteristics

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- Rotational Speed:
  - Normal speed (1X): 230 to 530 rpm
  - Double speed (2X): 460 to 1060 rpm
- Average Access Time:

- Normal speed (1X): 410 ms
- Double speed (2X): 295 ms
  
- Data Streaming Rate, Normal Speed (1X)
  - Mode 1: 150KB/sec
  - Mode 2: 171KB/sec
  
- Data Streaming Rate, Double Speed (2X)
  - Mode 1: 300KB/sec
  - Mode 2: 342KB/sec
  
- Block Rate:
  - Normal speed (1X): 75 blocks/sec
  - Double speed (2X): 150 blocks/sec
  
- SCSI Bus Transfer Burst Rate (over one CD-ROM block):
  - Asynchronous 2.5MB/sec
  - Synchronous 2.1MB/sec
  
- Buffer Size: 256KB

#### Formats Supported

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- Multisession Kodak Photo CD  
(QuickTime required)
  - ISO 9660/High Sierra
  - Macintosh HFS
  - CD-ROM XA (requires additional ADPCM hardware to read compressed audio)
  - CD+G
  - CD+MIDI
  - Standard Audio CDs
  - CD Digital Audio Data Via SCSI Bus

#### Electrical Requirements

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- Power Requirements:
    - +5V DC +/-5%, +12V DC +/-10%
  
  - Power Consumption (typical):
    - 450 mA for +5V DC
    - 420 mA for +12V DC

#### Operating Environment

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- Temperature:
    - 41° F to 122° F (5° C to 50° C)
  
  - Relative Humidity: 5% to 90% noncondensing

#### Non-operating Environment

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- Storage Temperature (6 months): -22° F to 122° F (-30° C to 50° C)

- Transportation Temperature (72 hours): -40° F to 149° F (-40° C to 65° C)
- Relative Humidity: 5% to 95% noncondensing

System Requirements

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- Macintosh Quadra 610, 660AV, 650, 800, 840AV, 900, 950 with appropriate mounting hardware and cabling.
  - AppleCD SC Setup software version 5.x or later.

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19 Aug 1996 - Corrected misspelling.

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