



# Tech Info Library

## Apple 5.25 Drive: Specifications

Revised: 7/11/94  
Security: Everyone

Apple 5.25 Drive: Specifications

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TOPIC -----

This article describes the Apple 5.25 Drive.

DISCUSSION -----

The Apple 5.25 Drive is ideal for users who need compatibility with thousands of Apple II software programs.

The unit adds 143K of on-line storage to an Apple II system. You can further increase storage capacity by connecting an additional drive directly to it. Depending on which computer system you have, you may be able to "daisy chain" several drives (including 3.5-inch drives) in this manner.

### System Requirements

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The Apple 5.25 Drive can be used with any Apple II personal computer:

- Apple IIGS
- Apple IIe\*
- Apple IIc Plus
- Apple IIc
- Apple II Plus\*
- original Apple II\*

\* the Apple IIe, Apple II Plus, and Apple II require the Apple 5.25 Controller Card

### Technical Specifications

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- Recording medium  
recording surfaces: 1  
tracks per surface: 35

- Capacity
  - Formatted data capacity: 143K, 16 sectors
  - Available data capacity:
    - ProDOS or Pascal: 137K
    - DOS 3.3 (16 sectors): 124K
- Drive Characteristics
  - Seek/settle time (track to track): 30 milliseconds maximum
  - Drive-motor startup time: 500 milliseconds maximum
  - Data transfer rate: 250 KBytes/second
  - Disk rotational speed: 299 RPM
  - Seek/settle time (track to track): 30 milliseconds max.
  - Drive motor start time: 500 milliseconds max.
  - Number of read/write heads: 1
  - Head positioning:
    - Adjusted to a tolerance of 0.002 inches maximum deviation from ideal on track
  - Tracks per surface: 35
  - Tracks per inch: 48
  - Data surfaces: 1
- Power consumption
  - +12 ( $\pm 0.6$ ) volts DC
    - typical: 800 milliamps
    - maximum: 1.6 amps
  - 12( $\pm 0.6$ ) volts DC
    - typical: 10 milliamps
    - maximum: 20 milliamps
  - +5( $\pm 0.25$ ) volts DC
    - typical: 200 milliamps
    - maximum: 400 milliamps
- Head Positioning
  - Adjusted to  $\pm 0.002$  inches maximum deviation from ideal on track
- Interfaces
  - one built-in cable with 19-pin D-style plug
    - Plugs directly into the disk drive port of an Apple IIGS, Apple IIc Plus, or Apple IIc.
    - Plugs into the Apple 5.25 Controller Card installed in an Apple IIe, Apple II Plus, or Apple II.
  - one 19-pin D-style jack for connection of additional drive
- System Configuration
  - Replaces UniDisk as standard floppy disk drive
  - Can be "daisy chained" or connected to the back of another drive using the disk drive port of the Apple IIGS, the disk drive port of the Apple IIc, or using UniDisk controller card in the Apple II series computers Apple II, Apple II Plus, Apple IIe, or Apple IIGS.

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- Environmental requirements
  - operating temperature: 50 to 105 degrees F (10 to 46 degrees C)
  - operating humidity: 20% to 80% (noncondensing)
  - maximum wet bulb temperature: 85 degrees F (29.4 degrees C)
- Dimensions and Weight
  - height: 3.13 in. (7.96 cm)
  - width: 6.37 in (16.2 cm)
  - depth: 8.50 in. (21.6 cm)
  - weight: 4.62 lb. (2.1 kg)

### Article Change History:

11 Jul 1994 - Added more information from another Tech Info Library article.

### Support Information Services

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