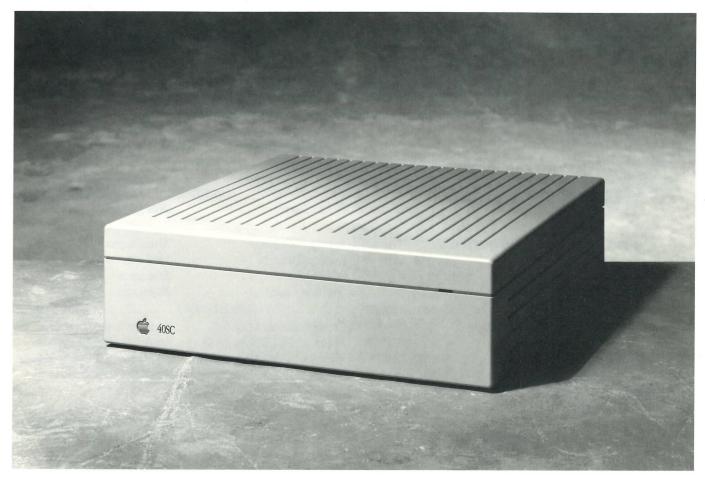
Apple External Hard Disks



Overview

Providing 20, 40, 80, or 160 megabytes of storage capacity, Apple[®] External Hard Disks are ideally suited to meet the growing needs of business, education, professional, and technical users who demand fast, convenient, and reliable access to their applications and data files.

Besides providing vastly more storage capacity than a floppy disk, Apple Hard Disks access and transfer data up to six times faster than floppy disk drives.

Macintosh[®] computers equipped with a SCSI port, as well as Apple IIe and Apple IIGs[®] computers equipped with an Apple II SCSI Interface Card, can support external hard disk products.

Features

▶ 20, 40, 80, or 160 megabytes of storage

► Fast data access:

160SC—18 milliseconds average seek 80SC—20 milliseconds average seek 40SC—30 milliseconds average seek

20SC—68 milliseconds average seek

 Industry-standard Small Computer System Interface (SCSI)

Benefits

 Provides for fast, convenient access to large data files and multiple applications without swapping floppy disks.
 Supports creation of high-end solutions such as AppleShare[®] file servers and A/UX[®] systems.

Accesses data significantly faster than floppy disk drives.

- Provides fast data transmission (up
- to 1.25 megabytes per second).
- 10 1.23 megabytes per second).
- ► Allows you to expand your system with additional SCSI peripherals.

▶ Provides connection to the Apple Tape Backup 40SC for file backup and restoration.

Assures a growth path.

Apple Hard Disk 20SC

System Requirements	To use an Apple Hard Disk 20SC with a Macintosh personal com- puter, you must have: ► SCSI port	To use an Apple Hard Disk 20SC with an Apple IIe or Apple IIGs personal computer, you must have: ▶ Apple II SCSI Interface Card	
Product Details	SCSI expansion SCSI expansion lets you connect as many as three additional SCSI	devices to an Apple IIe or Apple IIGs, or as many as six to a Macintosh.	с. ж
Technical Specifications	Capacity	Data capacity: Data surfaces: Heads/Surface: Block size: Total disk blocks: Blocks/Track:	20 megabytes (formatted) 4 1 512 bytes 41,060 17
	Characteristics	Average seek time: Rotational speed: Startup time: Spin-down time:	68 milliseconds 3,600 rpm 20 seconds 20 seconds
	Interface	Connects directly to the Macintosh Plus, Macintosh SE, Macintosh SE/30, Macintosh II, Macintosh IICX, and Macintosh IIX via the external SCSI DB-25 connector.	Connects to the Apple IIe or Apple IIGS via the expansion port, using the Apple II SCSI Interface Card.
	Electrical requirements	Line voltage: Frequency: Maximum power:	85 to 270 volts AC 47 to 64 hertz 30 watts
	Environmental requirements	Operating temperature: Storage temperature: Relative humidity: Operating altitude: Shipping altitude:	50° to 104° F (10° to 40° C) 32° to 122° F (0° to 50° C) 20% to 80% noncondensing 0 to 10,000 ft. (0 to 3,048 m) -1,000 to 40,000 ft. (-305 to 12,192 m)
	Size and weight	Height: 3.1 in. (7.8 cm) Width: 9.7 in. (24.6 cm)	Depth: 10.5 in. (26.6 cm) Weight: 7.4 lbs. (3.35 kg)
Ordering Information	Apple Hard Disk 20SC Order No. M2620/A	 With your order, you'll receive: Apple Hard Disk 20SC Owner's guide Setup disk Power cord Apple SCSI System Cable Apple SCSI Cable Terminator Limited warranty statement 	Apple II SCSI Interface Care Order No. A2B2087

Apple Hard Disk 40SC

System Requirements	See the Apple Hard Disk 20SC for the Apple Hard Disk 40SC system requirements.		
Product Details	SCSI expansion SCSI expansion lets you connect as many as three additional SCSI	devices to an Apple IIe or Apple IIGS, or as many as six to a Macintosh.	· · · · · · · · · · · · · · · · · · ·
Technical Specifications	Capacity	Data capacity: Data surfaces: Heads/Surface: Block size: Total disk blocks: Blocks/Track:	40 megabytes (formatted) 3 or 4 1 512 bytes 82,020 28, 33, or 35
	Characteristics	Average seek time: Rotational speed: Startup time: Spin-down time:	30 milliseconds 3,600 or 3,662 rpm 20 seconds 20 seconds
	Interface	Connects directly to the Macintosh Plus, Macintosh SE, Macintosh SE/30, Macintosh II, Macintosh IICX, and Macintosh IIX via the external SCSI DB-25 connector.	Connects to the Apple IIe or Apple IIGS via the expansion port, using the Apple II SCSI Interface Card.
	Electrical requirements	Line voltage: Frequency: Maximum power:	85 to 270 volts AC 47 to 64 hertz 60 watts
	Environmental requirements	Operating temperature: Storage temperature: Relative humidity: Operating altitude: Shipping altitude:	50° to 104° F (10° to 40° C) 32° to 122° F (0° to 50° C) 20% to 80% noncondensing 0 to 10,000 ft. (0 to 3,048 m) -1,000 to 40,000 ft. (-305 to 12,192 m)
	Size and weight	Height: 3.1 in. (7.8 cm) Width: 9.7 in. (24.6 cm)	Depth: 10.5 in. (26.6 cm) Weight: 7.5 lbs. (3.4 kg)
Ordering Information	Apple Hard Disk 40SC Order No. M2644/A	 With your order, you'll receive: Apple Hard Disk 40SC Owner's guide Setup disk Power cord Apple SCSI System Cable Apple SCSI Cable Terminator Limited warranty statement 	Apple II SCSI Interface Card Order No. A2B2087

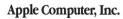
Apple Hard Disk 80SC

System Requirements	See the Apple Hard Disk 20SC for	the Apple Hard Disk 80SC system re	equirements.
Product Details	SCSI expansion SCSI expansion lets you connect as many as three additional SCSI	devices to an Apple IIe or Apple IIGS, or as many as six to a Macintosh.	
Fechnical Specifications	Capacity	Data capacity: Data surfaces: Heads/Surface: Block size: Total disk blocks: Blocks/Track:	80 megabytes (formatted) 5 1 512 bytes 163,940 28 or 35
	Characteristics	Average seek time: Rotational speed: Startup time: Spin-down time:	20 milliseconds 3,662 rpm 20 seconds 20 seconds
	Interface	Connects directly to the Macintosh Plus, Macintosh SE, Macintosh SE/30, Macintosh II, Macintosh IICX, and Macintosh IIX via the external SCSI DB-25 connector.	Connects to the Apple IIe or Apple IIGs via the expansion port, using the Apple II SCSI Interface Card.
	Electrical requirements	Line voltage: Frequency: Maximum power:	85 to 270 volts AC 47 to 64 hertz 60 watts
	Environmental requirements	Operating temperature: Storage temperature: Relative humidity: Operating altitude: Shipping altitude:	50° to 104° F (10° to 40° C) 32° to 122° F (0° to 50° C) 20% to 80% noncondensing 0 to 10,000 ft. (0 to 3,048 m) -1,000 to 40,000 ft. (-305 to 12,192 m)
	Size and weight	Height: 3.1 in. (7.8 cm) Width: 9.7 in. (24.6 cm)	Depth: 10.5 in. (26.6 cm) Weight: 7.6 lbs. (3.45 kg)
Ordering Information	Apple Hard Disk 80SC Order No. M2688/A	 With your order, you'll receive: Apple Hard Disk 80SC Owner's guide Setup disk Power cord Apple SCSI System Cable Apple SCSI Cable Terminator Limited warranty statement 	Apple II SCSI Interface Car Order No. A2B2087

Apple Hard Disk 160SC

System Requirements	To use an Apple Hard Disk 160SC with a Macintosh per- sonal computer, you must have: ► SCSI port		
Product Details	SCSI expansion SCSI expansion lets you connect as many as six additional SCSI devices to a Macintosh.	-	
Technical Specifications	Capacity	Data capacity: Data surfaces: Heads/Surface: Block size: Total disk blocks: Blocks/Track:	160 megabytes (formatted) 5 1 512 bytes 327,780 32 to 54
	Characteristics	Average seek time: Rotational speed: Startup time: Spin-down time:	18 milliseconds 3,600 rpm 20 seconds 20 seconds
	Interface	Connects directly to the Macintosh Plus, Macintosh SE, Macintosh SE/30, Macintosh II,	Macintosh IICX, and Macintosh IIX via the external DB-25 SCSI connector.
	Electrical requirements	Line voltage: Frequency: Maximum power:	85 to 270 volts AC 47 to 64 hertz 60 watts
	Environmental requirements	Operating temperature: Storage temperature: Relative humidity: Operating altitude: Shipping altitude:	50° to 104° F (10° to 40° C) 32° to 122° F (0° to 50° C) 20% to 80% noncondensing 0 to 10,000 ft. (0 to 3,048 m) -1,000 to 40,000 ft. (-305 to 12,192 m)
W	Size and weight	Height: 3.1 in. (7.8 cm) Width: 9.7 in. (24.6 cm)	Depth: 10.5 in. (26.6 cm) Weight: 9.5 lbs. (4.3 kg)
Ordering Information	Apple Hard Disk 160SC Order No. M2666	 With your order, you'll receive: Apple Hard Disk 160SC Owner's guide Setup disk Power cord 	 Apple SCSI System Cable Apple SCSI Cable Terminator Limited warranty statement

▶ Power cord



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