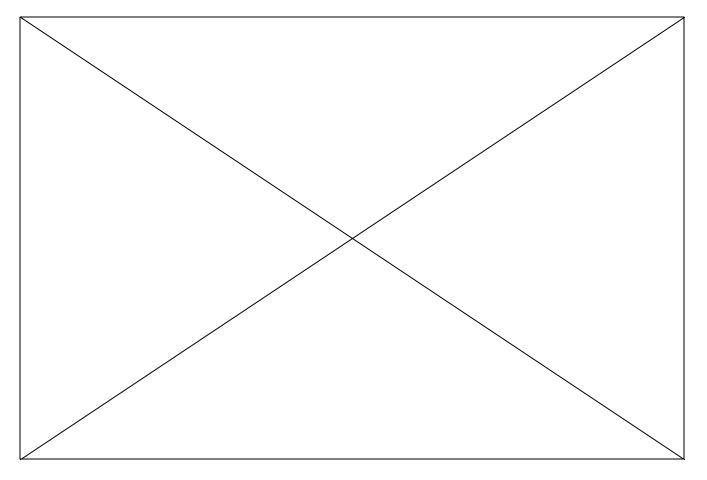
MacintoshSE/30



Overview

The Macintosh®SE/30personal computerwasdesignedfor peoplewhowantmaximum performancefromacompact computersystem. It provides up tofourtimesthecomputational speedoftheMacintoshClassic[®]. whilecontinuingtoofferthe benefitsthatcharacterizeall Macintoshcomputers:aconsistentuserinterfaceandintuitive designthatmakeMagintosheasv tolearnanduse.TheMacintosh SE/30runsvirtuallyallcurrent versionsofMacintoshsoftware. And like the Macintosh Classic.it featuresasmallfootprint,easy setup, and transportability.

Theperformanceincreaseof theMacintoshSE/30derivesfrom thefull32-bit68030microprocessor.The68030runsattwicethe clockspeedofthe68000microprocessorusedintheMacintosh Classic.Andtwiceasmuchdata canbemovedatatimebecause itsextemaldatabusistwiceas wideasthatofthe68000.The MacintoshSE/30alsoindudesa 68882floating-pointcoprocessor forfasterprocessingofcomplex mathfunctions-upto100times fasterthantheMacintoshClassic.

TheMacintoshSE/30usesthe Apple®SuperDrive^s,ahighcapacity3.5-inchfloppydiskdrive capableofreading400K,800K, and1.4-megabyteMacintosh disks.Inaddition,theApple SuperDriveletsusersreadfrom andwritetoMS-DOS,OS/2,and ProDOS®formatteddisksthrough theAppleFileExchangeutility. Thiscombinationofcapabilities makestheMacintoshSE/30an excellentchoiceforusein multivendorenvironments.

Expansion options for the Macintosh SE/30 can be accommodated through the 030 Direct Slot. Via the 030 Direct Slot, the Macintosh SE/30 can accept communications cards, such as Ethernet and Token Ring cards, as well as high-performance video cards that support large gray-scale and colormonitors.

 32-bit68030 microprocessor (operating at 16 megahertz) with instruction and data caches, and built-in Paged Memory Management Unit (PMMU) 68882 floating-point coprocessor 	 Executes applications at up to four times the speed of the 68000-based Macintosh Classic. Provides hardware support for advanced, multitasking operating systems. Provides fast processing of complex
(operatingat16megahertz)	mathematical functions (such as logarithmicor trigonometric calculations) often used in spreadsheets and high-end graphics and statistics applications.
Macintoshuserinterface: mouse,icons,windows,and	Makesmostapplicationsintuitiveandeasy toleam.
pull-downmenus	Provides a consistent interface across applications.Reduces training and support costs.
 Compact design with high-resolution 9-inchscreen 	Offers an affordable, compact system that requires little desk space and is easy to set up and transport.
 AppleSuperDrive (1.4-megabytefloppy diskdrive) 	 Providesalmosttwicethestorage capacity of existing 800K disks. Allows you to conveniently transfer data files between Macintosh, MS-DOS, OS/2, and Apple II systems using the Apple File Exchange software. Offers compatibility with existing 800K and 400K Macintosh disks.
• MultiFinder [®] operating system	 Lets you easily integrate information from multiple applications by cutting and pasting. Lets you move quickly and easily between applications. Allows you to continue working with applications while performing some tasks in the background, such as prints pooling to an Apple Laser Writer[®] printer or downloading remote files.
Macintoshsoftwarecompatibility	Runs virtually all current versions of Macintosh software, including applications designed to take advantage of the 68882 floating-point coprocessor.
• 030DirectSlot	Allows you to customize your system with high-performance expansion cards, including video cards for external color and gray-scale monitors, special memory cards, communica- tions cards, and digital signal processing cards.

030DirectSlotaccessport	Providesaneasywaytoconnectexternal devicesto030DirectSlotcards.
• 1or4megabytesofRAM,expandableto8 megabytes	 Letsyourun multipleapplications concurrently under Apple's MultiFinder operatingsystem. Letsyou work with large amounts of data, suchaslargespreadsheets, scanned images, and soundfiles. Provides the flexibility to grow as you need additional memory.
• AppleSoundChip	 Provideshigh-quality, four-voicestereo sound. Offers compatibility with all applications that use Macintosh sound.
 256KofROMonaSIMIM(SingleIn-line MemoryModule),including: Hierarchical File System DriversforMacintosh harddisks, Apple Desktop Bus^š, 68882floating-point coprocessor, SCSI, and AppleTalk[®] network Macintosh Toolbox QuickDraw^š and ColorQuickDraw 	 The SIMM mounting makes iteasy to remove and replace ROMs formore convenient servicing. The Hierarchical File System organizes storage for documents and allows easy access to files. The SCS linterface supports high-performance peripherals. Quick Draw provides the consistent interface through out the Macintosh family. Color Quick Draw provides a consistent interface for both black-and-white and color applications.
 Sevenbuilt-inports (one SCSI, one disk drive, two serial, two Apple Desktop Bus, one stereosound) 	 Makesiteasytoexpandyoursystemwith additional peripherals. ProvidesaccesstoLocalTalk®cable-based networks, allowing you to connect the MacintoshSE/30 to other computers and to LaserWriterprinters through the AppleTalk networksystem. Supports up to seven high-speed SCSI peripherals. Provides connections for Apple Desktop Bus devices, such as a keyboard, hand-controlled pointing device (such as a mouse or trackball), or graphic stablet.
 Choiceofkeyboards (soldseparately): –Apple Keyboard –Apple Extended Keyboard II 	 Apple Keyboard includes a numeric keypad and cursor keys for efficient operation. Apple Extended Keyboard II also includes 15 function keys, letting you work effectively with alternate operating systems, terminal-emulation programs, and other data communications applications.

Product Details

Systemconfigurations

Twoconfigurationsareavailable:

-TheMacintoshSE/30HardDisk40CPU includes the main unit, 1 megabyte of RAM, an internal 40-megabyte harddisk, one 1.4-megabyte Apple SuperDrive floppy disk drive, and mouse.

-TheMacintoshSE/30HardDisk80CPU includes the main unit, 4 megabytes of RAM, an internal 80-megabyte hard disk, one 1.4-megabyte Apple SuperDrive floppy disk drive, and mouse.

• The keyboard and other peripheral devices are packaged and sold separately.

030DirectSlot

 The 030 Direct Slot provides a 32-bitslot directly connected to the microprocessor bus that will support one high-performance expansion card. (Note: The slot is not compatible with SE-Bus expansion cards or Macintosh II expansion cards.)

RAM

 The Macintosh SE/30 Hard Disk 40 CPU with 1 megabyteof RAM can be upgraded to 2 megabytes of RAM with al-megabyte Memory Expansion Kit, 5 megabytes of RAM with two 2 -megabyte Memory Expansion Kits, or 8 megabytes of RAM with four 2-megabyte Memory Expansion Kits.

 The Macintosh SE/30 Hard Disk 80 CPU with 4 megabytes of RAM can be upgraded to 5 megabytes of RAM with one 1-megabyte
 Memory Expansion Kit, or 8 megabytes of RAM with two 2-megabyte Memory Expansion Kits.

Stereosound

• The Apple Sound Chipprovides four-voice, wave-tablesynthesis and astereos ampling generator capable of mixing left and right channels for the internal speaker or providing full stereo sound output through a miniature stereophone plug.

SCSI

• UptosevenSCSI(SmallComputerSystem Interface) peripherals (including an internal harddisk) can be connected to the MacintoshSE/30.

 SCSI provides data transferrates of up to 1 megabytepersecond.

Network support

- The Macintosh SE/30 serial ports provide full support for Local Talk network connections.
- The Macintosh SE/30 provides full ROM support for all Apple Talk protocols.

Operating system support

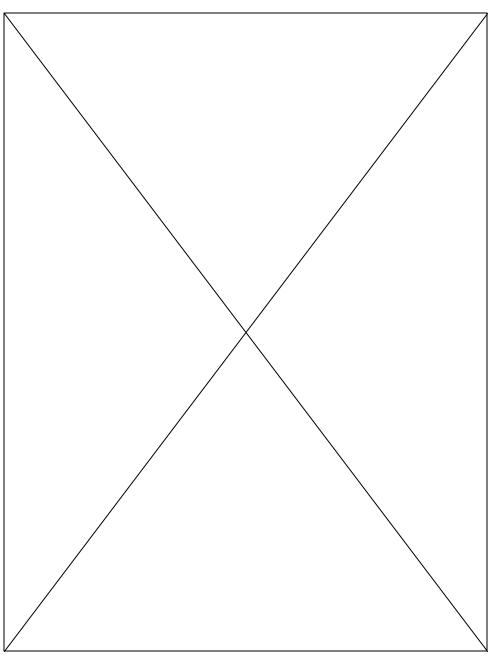
Macintoshsystemsoftwareincludes:
 Systemsoftwareversion6.0.7 or later (the Macintosh Operating System) with System Startup disk.

--System Additions disk (includes utilities such as the Apple File Exchange, HDSC Setup, Disk First Aid $^{\rm s}$, and Font/DAM over).

• HyperCard[®] 2.0 Home, Addresses with Audio, Appointments with Audio, Audio Palette, and Audio Helpstacks.

Upgrade path for current Macintosh SE computer owners

• An upgrade is available for the standard 68000-based Macintosh SE.



Technical Specifications

Processor

MC6803032-bitinternal . Harvardarchitecture

15.667-megahertzdock

frequency Built-in Paged Memory .

ManagementUnit(PMMU) 256-byteinstructionand

datacaches

Coprocessor

MC68882floating-pointunit (follows IEEE standards)

Memory

 1or4megabytesofRAM, expandableto8megabytes

256KofROM

256bytesofuser-settable parametermemory

Disk storage

1.4-megabytehigh-density . floppy disk drive (external floppy diskdriveoptional)

Optional internal 40-or 80megabyteAppleSCSIharddisk (externalSCSI harddisksoptional)

Videodisplay

Built-in9-inchdiagonal, high-. resolution,512-by342-pixel bit-mappeddisplay

ColorQuickDrawinROM provides support for gray-scale and colorvideocardsinstalledinthe 030DirectSlot.

Interfaces

 TwoAppleDesktopBus connectorsforcommunication withkeyboard, mouse, and other inputdevices overlow-speed, synchronousserialbus

 030 Direct Slot supporting full 32-bitaddressanddatalines through 120-pin Euro-DIN connector

TwoRS-232/RS-422serialports, 230.4 kilobaud maximum (up to 0.920 megabit persecond if clocked externally)

- SCSIinterface .
- Stereosoundportforexternal . audioamplifier

Sound generator

AppleSoundChip(ASC) . including four-voice, wave-table synthesisandstereosampling generator capable of driving stereo mini-phone-jackheadphonesor otherstereoequipment

Mixedstereomonophonic soundoutputthroughinternal speaker

Clock/calendar

CMOScustomchipwithlonglifelithiumbattery

Keyboards (not included)

- AppleKeyboard .
- AppleExtendedKeyboardII

Mouse

AppleDesktopBusmousewith . mechanicaltracking;opticalshaft orcontactencodingat3.94±0.39 pulsepermm(100±10pulses perin.) of travel

Fan

. 10CFMradial

Electrical requirements

- Linevoltage: 120to240volts •
- AC, RMS automatically configured Frequency:48to62Hz,

singlephase

Maximumpower:75watts

Size and weight

MainUnit

- . Height: 13.6 in. (34.5 cm)
- Width: 9.6 in. (24.4 cm)
- Depth: 10.9in. (27.6cm)
- Weight:21.5lb.(9.75kg)

Mause

- Height: 1.1 in. (2.8 cm)
- Width: 2.1 in. (5.3 cm)
- Depth: 3.8in. (9.7cm)
- Weight:6oz.(.17kg)

MacintoshSE/30

Ordering Information

Macintosh SE/30 Hard Disk 40 CPU (ImegabyteofRAM) OrderNo.M5390	With your order, you'll receive: Macintosh SE/30 personal computer with 1 megabyte of RAM, abuilt-in 1.4-megabyte Apple Super Drive, and internal 40 megabyte SCSI harddisk	 Mouse Completesetup, learning, and reference documentation Systemsoftware and Hyper-Cardsoftware Training disk Limited warranty statement
Macintosh SE/30 Hard Disk 80 CPU (4megabytesof RAM) Order No.M5361	With your order, you'll receive: Macintosh SE/30 personal computer with 4 megabytes of RAM, abuilt-in 1.4-megabyte Apple	 Mouse Complete setup, learning, and reference documentation Systemsoftware and

SuperDrive, and internal

80-megabyteSCSI harddisk drive

HyperCardsoftware

Trainingdisk

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Limitedwarrantystatement

AppleComputer, Inc.

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