



System Fact Sheet

SYSTEM

Introduced: October 1993
Discontinued: September 1994
Gestalt ID: 36
Form Factor: IIvx
Weight (lbs.): 25
Dimensions (inches): 6 H x 13 W x 16.5 D

Codename: Speedbump 650
Oder Number:
KB Article #: 13697

POWER

Max. Watts: 230
Amps: 1.90
BTU Per Hour: 786.6
Voltage Range: 100-240
Freq'y Range (Hz): 50-60
Battery Type: 3.6V lithium

Soft Power
 Monitor Power Outlet

PORTS

ADB: 2
Video: DB-15
Floppy: none
SCSI: DB-25
GeoPort Connectors: none
Ethernet: AAUI-15
Microphone Port Type: Omni

Printer **Speaker**
 Modem **Headphone**
 Airport **Remote Control**

VIDEO **Built-in Display:** none

		<i>Maximum Color Bit-depth¹ At:</i>									
		512	640	640	640	800	832	1024	1152	1280	
VRAM Speed:	VRAM Needed:	x384	x400	x480	x870 ²	x600	x624	x768	x870	x1024	
80 ns	built in	16	n/a	8	4	8	8	4	4	n/a	
	2x256K	16	n/a	16	8	16	16	8	8	n/a	

¹ 1-bit = Black & White; 2-bit = 4 colors; 4-bit = 16 colors; 8-bit = 256 colors; 16-bit = Thousands; 24-bit = Millions
² The maximum color depth listed for 640x870 is 8-bit, reflecting the capabilities of the Apple 15" Portrait Display.

LOGICBOARD

Main Processor: 68040, 33 MHz
PMMU: integrated
FPU: integrated
Data Path: 32-bit, 33 MHz
L1 Cache: 8K
L2 Cache: none
Secondary Processor: none
Slots: 3 NuBus, 1 PDS

MEMORY

Memory on Logic Board: 4, 8 MB
Minimum RAM: 4 MB
Maximum RAM: 132, 136 M B
RAM Slots: 4 72-pin
Minimum RAM Speed: 80 ns
RAM Sizes: 4, 8, 16, 32 MB
Install in Groups of: 1

SOFTWARE **Speech Recognition Supported**

Addressing Modes: 24-, 32-bit
Original SSW: 7.1
Original Enabler: System Enabler 040 v1.1

ROM ID: \$067C
ROM Version: n/a
ROM Size: 1MB
AppleTalk Version: 57.0.4

Supported Macintosh System Software:

<input type="checkbox"/> A/UX 1.0	<input type="checkbox"/> NOS 1.11	<input type="checkbox"/> ProDOS	<input type="checkbox"/>
<input type="checkbox"/> A/UX 1.11	<input type="checkbox"/> NOS 1.3	<input type="checkbox"/> GS/OS	<input type="checkbox"/>
<input type="checkbox"/> A/UX 2.0	<input type="checkbox"/> NOS 2.0	<input type="checkbox"/> NeXTStep 1.x	<input type="checkbox"/>
<input type="checkbox"/> A/UX 3.0.1	<input type="checkbox"/> NOS 2.1	<input type="checkbox"/> NeXTStep 2.x	<input type="checkbox"/>
<input type="checkbox"/> A/UX 4.1.4	<input type="checkbox"/> LOS 7/7	<input type="checkbox"/> NeXTStep 3.x	<input type="checkbox"/>
<input type="checkbox"/> A/UX 4.1.4.1	<input type="checkbox"/> DOS 3.1	<input type="checkbox"/> OpenStep	<input type="checkbox"/>
<input type="checkbox"/> A/UX 4.1.5	<input type="checkbox"/> SOS 1.3	<input type="checkbox"/> <1.0	<input type="checkbox"/>

SOUND

Built-in Microphone

Microphone Port Type: Omni
Sound In: mono, 8-bit
Sound Out: stereo, 8-bit

STORAGE

Supports Internal CD-ROM

Floppy Size: 1.44MB
Floppy Inject: auto
Internal HD Size: 230-500MB
Internal HD Interface: SCSI
Original CD-ROM Speed: 2x

HISTORY

The Centris 650 was a faster, more expandable version of the 610. It came in a IIvx-style case, and was powered by a 25 Mhz 68040 processor. In October 1993, the 650 was replaced with the Quadra 650, which had a 33 Mhz 68040 processor, but was in all other ways the same. The Centris/Quadra 650 sold for \$2,700, and was discontinued in September of 1994.