

NOTE: The MMPC Model 20 is the same computer as the MMPC Model 10 except for Local Bus Video on the MMPC Model 20.

System Unit Specifications:

Processor..... 486 SX, 25 MHz  
Processor with Internal Math Coprocessor..... 487 SX, 25 MHz  
Overdrive Processor Supported..... Yes  
FCC Class..... B, UL Listed  
Wait States..... 0

Built-In:

VGA compatible video..... Super VGA, 640 x 480 in 256 colors, 800 x 600 in 256 colors, 1024 x 768 in 16 colors  
Floppy disk controller..... can support 2 floppy drives (1) 1.44 MB Floppy installed  
SmartDrive connector..... can support 2 hard drives  
CD-ROM..... 375 ms average access time multi-session Kodak Photo CD capable  
Audio..... SoundBlaster Pro compatible  
Number of Expansion Slots..... 3 full length AT compatible 16-bit slots

Memory:

Base Memory.....4 MB (64 MB max)  
Video Memory..... 512 KB (1 MB max)  
Cache Memory..... 8 KB

Keyboard..... 101 Key Enhanced  
Mouse..... 2-button

Standard Ports:

VGA Monitor..... DB-15 female  
Serial (2)..... DB-9 male  
Bidirectional Parallel..... DB-25 female  
Keyboard and Mouse..... (2) 6-pin Mini DIN  
Game/MIDI

Bundled Software..... MS-DOS 6.0  
Sound Blaster Audio Utilities and VGA Drivers  
Microsoft Windows 3.1 MPC)  
Microsoft Works  
America Online  
San Diego Zoo Presents ... The Animals  
World Atlas  
Toolworks Reference Library

(all programs come installed on the harddrive and are also on the included diskettes)

Power Requirements..... 110 to 125 VAC, 60 Hz (US)  
(switch selectable) 220 to 240 VAC

Power Supply Wattage..... 145 Watts  
 Heat Output..... 383 BTU/hour  
 Weight..... 23 lbs  
 Dimensions..... 15 X 15.5 X 4.2 inches (LxWxH)

Environment:

Temperature

Operating..... 50°F to 95°F  
 Storage..... -40°F to 158°F

Humidity

Operating..... 20% to 80% (non-condensing)  
 Storage..... 10% to 95% (non-condensing)

Expansion Slot Current Use

Voltage	Max. Current Available per Expansion Slot (A)	Typical Current Available per Expansion Slot (A)	Max. Total Current Available for All Slots (A)
+ 5	6	3	9
+ 12	0.9	0.3	0.9
- 12	0.15	0.05	0.15
- 5	0.15	0.05	0.15

Heat Sink Requirements for Upgrade Processors

Dimensions in inches

	Height	Width	Length
Minimum	0.32	1.5	1.5
Maximum	0.36	1.73	1.87

Attachment

To attach a heat sink to an upgrade processor, use a clip with thermal grease, or apply thermal double-sided tape.

Acoustic Noise..... Less than 42dBA

CD-ROM Drive Specifications

Height..... 41.5 mm (1.63 in.)  
 Width..... 146 mm (5.75 in.)  
 Depth..... 208 mm (8.19 in.)  
 Weight..... 1.5kg (3 lbs.)  
 Ambient temperature..... Operating 5°C to 55°C (41°F to 131°F)  
 Storage: -4°C to 70°C (-40°F to 158°F)

Relative humidity..... Operating 10% to 80%, noncondensing  
 Storage: 5% to 95%

Maximum wet bulb..... 28°C (82°F)

Power dissipation..... 7 W, typical  
15 W start up and seek

Noise power output..... 35 dBA maximum

Capacity per CD..... 553MB

Maximum sustained  
transfer rate..... 153.6KB

Average access time..... 375 ms, typical  
(after spin-up) (including latency)

Start-up time..... 2 sec.  
(after media initialization)

Error rates..... Raw data from CD: 1 in 10(3) in 10(4) bits  
Data from drive: 1 in 10 (11) to 10(12) bits

Mean time between failures (MTBF)..... 15,000 hrs.

(smc-02/09/94)