

apricot MS540

The ultimate in multimedia computing for the home user



Features

- ► Choice of 75, 100, 133, 166 or 200MHz Pentium CPUs
- ► Up to 128MB of enhanced performance EDO SIMM memory
- Choice of 850MB, 1.2GB or 1.7GB high performance hard disk
- ► Sony CD-ROM drives
- Power-saving standby mode with twosecond recovery
- ► High quality, powerful external speakers
- ► SoundBlaster Vibra-16 audio
- ► Options package including modem
- Comprehensive bundled software pack for education, personal productivity and entertainment
- ▶UK manufactured







System Overview

If you need a computer for entertainment, reference, communications or serious business use, you won't find a better package than the Apricot MS540. Whether you're using it to plan your week's activities, explore the remote corners of the world, send a letter or test your reactions and dexterity with a chart-topping game, the MS540 gives you the power of a full specification business PC, together with the finest multimedia specification. With super-fast Pentium processors and massive hard disk capacity, it makes light work of everything – from exploring the Internet to serious number-crunching.

The incredible machine

The MS540 looks good and sounds good. A choice of high resolution monitors up to 21" guarantees that, whatever the application, you won't miss the smallest detail. For the ultimate in screen clarity and detail, there are 15" and 17" models too. Fully integrated Creative Labs 16-bit SoundBlaster audio provides stunning audio coupled with a Sony quad and six-speed CD-ROM drives. A pair of powerful, high quality external speakers give rich, room-filling stereo sound.

Easy to use

Right from the moment when you open the box, the thoughtful design of the Apricot MS540 becomes

apparent. The box top Welcome Mat provides simple instructions on how to install your system correctly.

Business becomes pleasure

Even though it makes an ideal leisure companion for the whole family, the MS540 is a top-of-the-range business machine too. Processor choice ranges from the 75MHz Pentium right up to the 200MHz version – the fastest available. A choice of 850MB, 1.2GB or massive 1.7GB disk drives means that, however hard you work or play, there will always be ample storage capacity for your programs and data. There is a standby low power mode too, which allows you to leave the machine switched on, ready to start work within seconds, but also, in the case of Online models, able to respond to incoming faxes and 'phone calls.

Information is power

There's no shortage of information with the MS540. To get you started, there's a pack of the latest CDs, including Hutchinson's Multimedia Encyclopedia, Bodyworks 5, Microsoft Works and Money containing all you need for home productivity and a selection of Electronic Arts' chart-topping games. Choose a model with the Online fax modem and you'll soon have access to the Internet, with its vast resource of data from every corner of the world.

STANDARD FEATURES

Mass Storage

1.44MB floppy drive Choice of 850MB, 1.2GB or 1.7GB high speed IDE hard drives

Graphics

PCI Local bus enhanced VGA graphics 1MB RAM standard, upgradable to 2MB

Expansion

Five expansion slots for add-in cards High speed serial ports Parallel port

Pre-installed Software

Windows® 95

Free Software Titles

Microsoft Works, Microsoft Money, Hutchinson Multimedia Encyclopedia, Bodyworks 5, Fifa 96, Magic Carpet, USNF Gold, Sesame Street Words, Madeline, Modem software (where fitted): Cyberworks (for V.32) or Cheyenne Bitwise (for V.34), Compuserve WinCIM 2.0.1

Peripherals

14", 15", 17" or 21" high resolution monitors Enhanced 102 key keyboard Two button mouse

Features and Benefits

Pentium processing power

Pentium processors have rapidly become the industry standard. With the MS540, however, you can choose exactly the model you need for a specific situation. The budget-priced Pentium 75 can cope with everything the software can throw at it at the lowest possible cost. At the other end of the scale, the latest 200MHz Pentium processors offer the ultimate in performance, and for the best combination of price and performance there's the 133MHz Pentium. The state-of-the-art Intel 430FX PCI set is designed to achieve maximum performance of the system's PCI bus.

Memory options

By providing a choice of memory options, the MS540 allows you the opportunity to match performance to your budget. EDO SIMM memory has enhanced performance which reduces the need for a cache: This feature is fully exploited in the Pentium 75 models, where the cache is eliminated to enhance their price competitiveness. In the Pentium 100, 133, 166 and 200MHz models, a 256K pipeline burst cache gives enhanced performance.

High capacity, high speed hard drives

Fast, powerful computers require large, high performance disk drives. The MS540 comes with a choice of either a large 850MB drive, noted for its rapid, quiet operation, a 1.2GB or a massive 1.7GB with exceptionally high performance. The PCI busmaster enhanced IDE interface increases the available bandwidth to the disk drives to 16.6Mbytes/sec ensuring that data transfer is carried out at the drives' maximum capacity.

Future-proof chassis design

The MS540 uses an entirely new chassis, designed with the future in mind. It combines the traditional elegance and style of the Apricot marque with an attractive front panel layout. The chassis is designed to support the cooling requirements of the new Intel Pentium Pro processor and the system's Intel OverDrive Type 7 CPU socket, incorporates support for as yet unannounced Pentium processors, giving you a wide range of options for choice in the future.

Video acceleration

Every multimedia machine needs enhanced video performance and in the MS540 this is made possible by the use of accelerated local bus video processors. The Cirrus Logic GD5436 video controller with 1MB of video memory uses the PCI local bus to link with the main system processor, ensuring that even the most graphically intensive applications move like lightning. Socketed video memory means that this can be quickly and easily upgraded to 2MB when higher resolutions are required.

Welcome mat

As the first thing you see when the packaging is opened, the Welcome Mat provides precise, simple instructions on how to install and set up your Apricot MS540.

Recovery CD

The Recovery CD can restore the Windows 95 operating system and pre-installed software to its original state.

14", 15", 17" and 21" Hi Vision monitors

Every MS540 is provided with a choice of high resolution monitors, from the industry standard 14" SVGA model to the stunning 21" Diamondtron model. All monitors have energy-saving automatic power-down modes and meet all EU and International Health and safety regulations for screen emissions.

Industry standard

By adhering to the latest computer industry standards, Apricot engineers have ensured that the MS540 can be easily upgraded with widely available components and peripherals.

Built in the UK by Apricot

Apricot is one of Britain's longest established and most experienced computer manufacturers, now a major part of the worldwide Mitsubishi Electric Corporation. All Apricot systems are designed and built in the UK under the control of ISO 9001 (1994) quality management systems and backed by the world class manufacturing expertise and resources of one of the world's largest industrial groups.

Technical Specifications

MS540	575 / 5100	5133 / 5166	5200
cessor			
Type	Pentium	Pentium	Pentium
Clock speed (Internal)	75MHz / 100MHz	133MHz / 166MHz	200MHz
Clock speed (External)	50MHz / 66MHz	66MHz	66MHz
* '	-		
Internal cache	2x8KB	2x8KB	2x8KB
Coprocessor	Integral	Integral	Integral
Data/address bus	64/32-bits	64/32-bits	64/32-bits
CPU socket type	321-pin ZIF (Type 7)	321-pin ZIF (Type 7)	321-pin ZIF (Type 7)
iCOMP benchmark	610 / 815	1110 / 1308	1540
Core Logic chipset	Intel 430FX PCI set	Intel 430FX PCI set	Intel 430FX PCI set
ernal cache			
Supplied	None / 256KB pipeline burst	256KB pipeline burst	256KB pipeline burst
Maximum	256KB Pipeline burst	256KB Pipeline burst	256KB Pipeline burst
Mapping	Direct	Direct	Direct
Writing scheme	Write back	Write back	Write back
Cache speed	66MHz	66MHz	66MHz
M	00141112	00141112	CONTIL
Supplied	8 / 8 or 16MB	16MB	16MB
Maximum	128MB	128MB	128MB
Type	32-bit EDO SIMM	32-bit EDO SIMM	32-bit EDO SIMM
Speed	70ns	70ns	70ns
Fitted RAM location	Motherboard	Motherboard	Motherboard
Parity	None	None	None
Sockets: total	4	4	4
free	2	2	2
Sizes supported	4, 8, 16 & 32MB	4, 8, 16 & 32MB	4, 8, 16 & 32MB
M			
Size	1MBit	1MBit	1MBit
Type	Flash ROM	Flash ROM	Flash ROM
Shadowable	Yes	Yes	Yes
phics			
Controller	Cirrus Logic GD5436	Cirrus Logic GD5436	Cirrus Logic GD5436
Interface	PCI Local Bus	PCI Local Bus	PCI Local Bus
Location	Motherboard	Motherboard	Motherboard
Video memory: supplied	1MB	1MB	1MB
max	2MB	2MB	2MB
	DRAM	DRAM	DRAM
type			
Max N.I. resolution @ 1MB	1024x768 (256 colours)	1024x768 (256 colours)	1024x768 (256 colours)
Max N.I. resolution @ 2MB	1280 x1024 (256 colours)	1280 x1024 (256 colours)	1280 x1024 (256 colours)
Max N.I. colours @ 1MB	16.8 million (640x480)	16.8 million (640x480)	16.8 million (640x480)
Max N.I. colours @ 2MB	16.8 million (800x600)	16.8 million (800x600)	16.8 million (800x600)
dem (Online models only)			
Specifications	V.32bis 14,400bps Data Mode.	V.34bis 28,800bps Data Mode.	V.34bis 28,800bps Data Mode.
	(Plus: V.21, V.22, V.23, V.22bis, V.32)	(Plus: V.21, V.22, V.22bis, V.32 & V.32bis)	(Plus: V.21, V.22, V.22bis, V.32 & V.32
	V.17 14,400bps Group 3. EIA Compatible Fax Mode (Class II)	V.17 14,400bps Group 3. EIA Compatible Fax Mode (Class II)	V.17 14,400bps Group 3. EIA Compat Fax Mode (Class II)
	Error Correction & Compression (V.42 & V.42bis)	Error Correction & Compression (V.42 & V.42bis)	Error Correction & Compression (V.42 V.42bis)
	12bit 11KHz sampled Business Audio Voice Quality	12bit 11KHz sampled Business Audio Voice Quality	12bit 11KHz sampled Business Audio Voice Quality
Security			- ·
Technology	BIOS Level Security	BIOS Level Security	BIOS Level Security
C.	Power On/	Power On/	Power On/
Access control		CMOS Setup Password	CMOS Setup Password
Access control	CMOS Setup Password		
Access control	CMOS Setup Password		
Access control	Virus Detection	Virus Detection	Virus Detection
Access control Hardware	*		



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MS540	575 / 5100	5133 / 5166	5200
ansion (free)			
Total slots	5 (one shared PCI/ISA)	5 (one shared PCI/ISA)	5 (one shared PCI/ISA)
PCI	1 full & 1 half length	1 full & 1 half length	1 full & 1 half length
ISA	2 full & 2 half length*	2 full & 2 half length*	2 full & 2 half length*
*Online systems - modem uses 1 ISA slot		8	2 run & 2 man rength
ports			
Serial: quantity	2 (16550 compliant)	2 (16550 compliant)	2 (16550 compliant)
connectors	2 x 9-pin D-SUB	2 x 9-pin D-SUB	2 x 9-pin D-SUB
Parallel: quantity	1	1	1
type	ECP/EPP compliant	ECP/EPP compliant	ECP/EPP compliant
Dual channel PCI bus EIDE con		LCI/LII compilant	ECI7EII compnant
ATA IDE standard	Mode 4	Mode 4	Mode 4
Connector type	40-pin	40-pin	40-pin
Max data transfer	40-pin 16.6MB/s	40-pin 16.6MB/s	40-pm 16.6MB/s
Keyboard type	PS/2	PS/2	PS/2
Mouse type	PS/2	PS/2	PS/2
ver supply			
Rating (constant)	145W	145W	145W
Rating (peak)	179W	179W	179W
Type	Switched mode	Switched mode	Switched mode
Voltage setting	External switch	External switch	External switch
Voltage input range (AC)	90-132V & 180-264V	90-132V & 180-264V	90-132V & 180-264V
Frequency input range	47-63Hz	47-63Hz	47-63Hz
Max loads: +5V	18A	18A	47-03112 18A
1V1ax 10ads: +5 V +12V	4.2A	4.2A	4.2A
: == :			4.2A 0.3A
-12V	0.3A	0.3A	
External connectors	IEC in / IEC out	IEC in / IEC out	IEC in / IEC out
ppy drive			
Type/capacity	3.5"/1.44MB	3.5"/1.44MB	3.5"/1.44MB
Controller	Embedded	Embedded	Embedded
lio			
Туре	SoundBlaster Vibra-16	SoundBlaster Vibra-16	SoundBlaster Vibra-16
Ports	Microphone-in, line-in,	Microphone-in, line-in,	Microphone-in, line-in,
1010	speaker-out, line-out,	speaker-out, line-out,	speaker-out, line-out,
	game port / MIDI port	game port / MIDI port	game port / MIDI port
Speakers	External	game port / MIDI port External	External
Speakers	External	External	External
ROM			
Type	Sony CDU77E	Sony CDU111	Sony CDU111
Transfer rate	600KB/sec	900KB/sec	900KB/sec
Average access	190ms	180ms	180ms
Interface	IDE	IDE	IDE
Protocol	ATAPI	ATAPI	ATAPI
Rotational speed	x 4	x 6	x 6
ernal speakers			
-	2011//	2011/	2011/
Power	20W	20W	20W
Impedance	4Ohms	4Ohms	4Ohms
Frequency	50~20KHz	50~20KHz	50~20KHz
Dimensions: hxwxd	257 x 131 x 118mm	257 x 131 x 118mm	257 x 131 x 118mm
Controls	Power, treble, volume	Power, treble, volume	Power, treble, volume
	Bass	Bass	Bass

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MS	\$540	ALL MODELS	ALL MODELS				
ard Dı	rives	850MB	1.2GB		1.7GB		
Тур	ne	IDE	IDE		IDE		
	erage access	14ms	12ms		11ms		
	ick to track seek	5ms	3.1ms		2.5ms		
	rst data rate	6.5MB/sec	10.5MB/se		9.02MB/sec		
	che	128KB	10.5MB/sc 128KB	eC .	128KB		
				1			
	ГВF	300 000 poh	500 000 p	oh	400 000 poh		
ystem	Dimensions						
Wie	dth x depth x height	440 x 440 x 120mm	440 x 440 x 120mm				
We	eight	10Kg	10Kg				
arran	ty						
Sta	ndard cover	1 Year limited warranty					
(UI	K mainland only)	•					
reload	ded Software						
Ор	perating System	Windows® 95 and mul	timedia software bundle (U	JK mainland only)			
	vironmental			•			
	mperature (operating)	5 to +35°C					
Ter	mperature (non-op.)	5 to +65°C					
	humidity (operating)	10 to 80%					
	humidity (non-op.)	10 to 90%					
			European CE mark regulati	ione for Emissions Cuss	ibility VCCLL aval 2		
	/II/RFI approvals		European CE mark regulati	ions for Emissions Suscept	ionity. VCCI Level 2		
Saf	Fety approvals	EN60-950, UL1950					
lonito	rs	14" SVGAe	15" FST EVGAe	17" FST EVGAe	21" Diamondtron		
Sta	ndard	SVGAe	EVGAe	EVGAe	EVGAe		
CR	RT size (diag.)	14"	15"	17"	21"		
	RT type	Anti-glare	FST anti-glare	FST dynamic focus,	Diamondtron		
		g	black tinted	anti-glare/static	dark tint, anti-glare/static		
Dis	splay area	260 x 190 (+/-3mm)	270 x 203 (+/-3mm)	290 x 218 (+/-3.5mm)	380 x 285 (+/-4mm)		
	ot pitch	0.28mm	0.28mm	0.28mm	0.30mm		
		P22	P22	P22	P22		
	osphor						
	deo input	Analogue RGB	Analogue RGB	Analogue RGB	Analogue RGB		
	x. video bandwidth	65MHz	110MHz	130MHz	180MHz		
	x. res. x vert freq	1024 x 768 x 60Hz	1280 x 1024 x 60Hz	1600 x 1200 x 60Hz	1600 x 1200 x 75Hz		
,	(non-interlaced)		1024 x 768 x 75Hz	1280 x 1024 x 75Hz			
Pov	wer: full operation	80W	100W	130W	165W		
	standby	<30W	<30W	<5W	<30W		
	active off	>5W	>5W	>5W	>11W		
Pov	wer management	VESA DPMS support	VESA DPMS support	VESA DPMS support	VESA DPMS support		
	· ·	for EPA compliance	for EPA compliance	for EPA compliance	for EPA compliance		
EM	MI/RFI approvals	CE mark compliant	CE mark compliant	CE mark compliant	CE mark compliant		
	11	MPRII	MPRII	MPRII	MPRII		
Saf	ety approvals	EN60-950	EN60-950	EN60-950	EN60-950		
	mensions: w x d x h (mm)	351 x 384x327	361 x 382 x 345	411 x 480 x 380	500 x 488 x 490		
DII	weight						
		12Kg	14Kg	23Kg	35Kg		
-	evices	KEYBOARD	MOUSE				
	ys/buttons	102 PS/2	2 DS/2				
	erface	PS/2	PS/2				
	solution	N/A	400dpi				
	ble length	3m	1.83m				
Dir	mensions: w x d x h	465 x 170 x 45mm	63 x 114 x 40mm				
	weight	1.4Kg	127g				
AS b	o.v	INTERMEDIUM NETWORKS A/S	MITSUBISHI ELECTRI	C (TAIWAN) CO LTD	WORACHAK INTERNATIONAL CO LT		
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Specifications and options may vary from country to country.

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