MITSUBISHI ELECTRIC

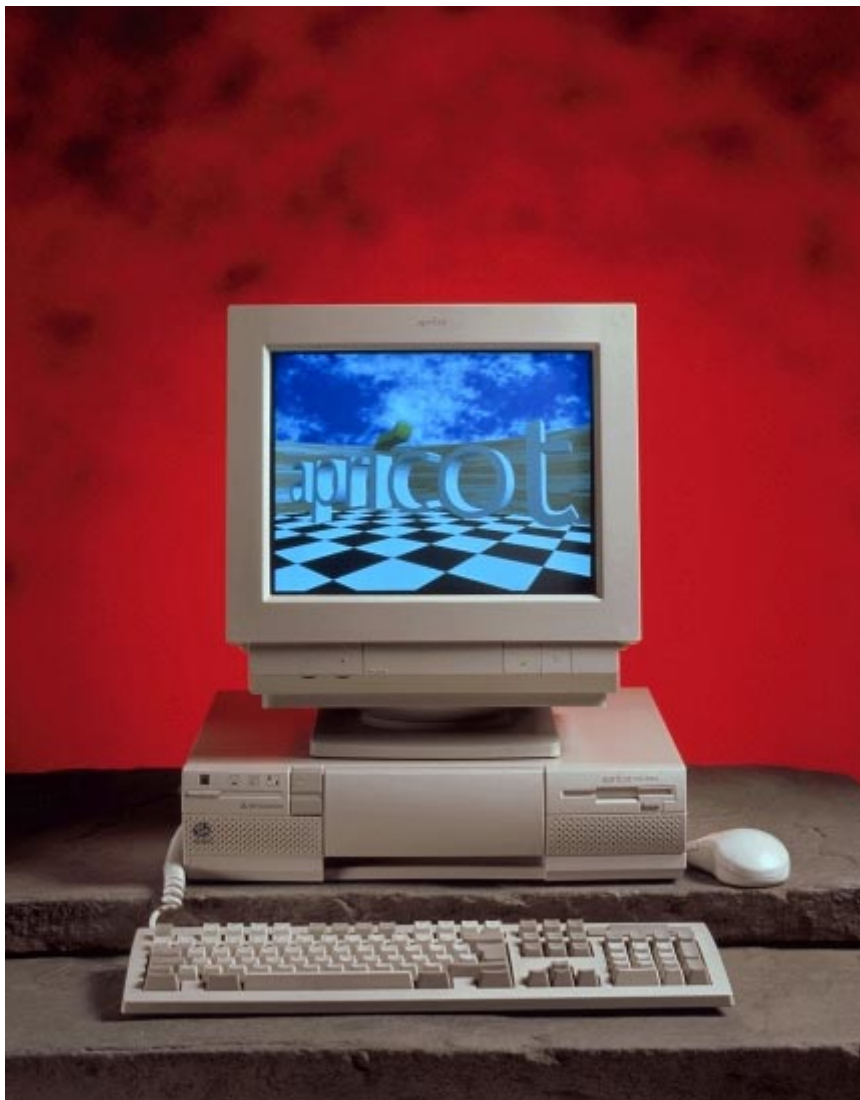## apricot
VS340

The stylish, low-profile, high performance PC range

Features

► Pentium 75MHz or Pentium 100MHz Processor Options

► High Power PCI Local Bus Video Acceleration

► Enhanced performance EDO RAM

► Large Capacity Hard Disk Drives

► High Resolution Low Radiation Monitors

► Up to 128MB RAM Expansion

► Processor Upgradeability

► IBM Compatible

► Apricot Style and Ergonomics

► UK Built

Designed for
Microsoft®
Windows®95

intel inside
pentium PROCESSOR

BSI REGISTERED FIRM

NATIONAL ACCREDITATION OF CERTIFICATION BODIES

Certificate No's:
FM1716   FS21715   FS30305

System Overview

High performance and versatility are two essential factors in the success of the Apricot VS340 range.

Graphically Speaking

Graphical user interfaces such as Windows 95, Windows NT and OS/2 have settled as the norm for all tasks from word processing to video editing. This is why all VS340 models include industry-leading graphic acceleration coprocessors to provide the very best on-screen performance. All models use PCI local bus technology to closely integrate the video circuitry. The Apricot VS340 systems feature the Cirrus Logic GD5434 with 1MB video RAM as standard.

Room to Manoeuvre

As software packages and the files that they create become ever-more space consuming, a high capacity hard drive with 850MB of storage is included.

Faster than ever

With every new development in software, the demands placed on the computer's resources increase. The VS340 range has been designed to meet all these needs - and more.

In all models, EDO memory uses the latest technology to give faster throughput of data. Enhanced performance eliminates the need for a cache on Pentium 75 systems, and reduces the requirement on the 100MHz models. All systems can be upgraded with a choice of cache modules if your computing requirements change in the future.

The Start of a Lasting Partnership

When your requirements change, so too will your VS340. Expanding each model is straightforward and, most importantly, fully industry standard. Each model uses widely available SIMM memory modules, processor upgrades, storage devices and peripheral boards.

STANDARD FEATURES

Mass Storage
1.44MB floppy drive
Large capacity, high speed enhanced IDE hard drives

Graphics
PCI Local Bus Enhanced VGA graphics
1MB of Video RAM, expandable to 2MB

Pre-installed Software
Windows® 95
Optional DOS 6.22 and Windows for Workgroups

Expansion
One PCI/ISA full length slot
One ISA full length slot
One ISA half length slots
Dual high speed serial ports
High speed parallel port
Socketed video memory
Cache SIMM socket

Peripherals
14", 15" 17" or 21" low radiation monitors
Enhanced layout 102 keyboard
Microsoft mouse

Features and Benefits

Pentium 75MHz or Pentium 100MHz

Pentium processors have rapidly become the industry standard. With the VS340, however, you can choose exactly the model you need for a specific situation. The entry-level Pentium 75 can cope with everything the software can throw at it - at the lowest possible cost. Alternatively, for the best combination of price and performance there's the 100MHz Pentium. The state-of-the-art Intel 430FX PCIset chipset is designed to achieve maximum performance with the system's PCI bus. This choice of processor options allows the correct configuration to be matched exactly to your performance and budget requirements. As those requirements change, the system processor can then be upgraded to meet new demands. Industry-standard processor sockets make upgrading to next generation processors a quick and easy task.

Flexible memory options

By providing a choice of memory options, the VS340 models allow even more opportunities for matching performance against budget. EDO SIMM memory has enhanced performance which reduces the need for a cache: this feature is fully exploited in the VS340 to boost their price competitiveness. Every VS340 is ready from the outset to tackle Windows, OS/2 and other memory intensive applications. Upgrading is made easy and cost effective using industry standard SIMMs (single, in-line, memory modules) which are widely available.

High speed PCI local bus

To provide the fastest possible route for data, all VS340 models incorporate local bus technology to join the processor to key peripheral devices. Additionally, the systems provide a PCI expansion slot to allow add-in boards to take advantage of the closely coupled 32-bit bus.

Video acceleration

The stunning video performance of the VS340 models is made possible by the use of accelerated local bus video processors. Using the 32-bit local bus to couple each video accelerator to the main system processor ensures that even the most graphically intensive applications move like lightning.

Video RAM

A minimum of 1MB video RAM means that each VS340 is capable of providing non-interlaced, high resolutions straight from the box.

High resolution 14", 15" 17" and 21" Monitors

Each VS340 is supplied with a choice of high resolution monitors that perfectly match the fast graphic capabilities of the systems. All monitor options meet and exceed the latest European standards for safety and emissions.

High capacity, high speed hard drives

A high capacity 850MB hard drive is fitted as standard to each model.

Parallel and dual serial ports

Quick and easy connection to external devices   is made possible by the on-board parallel and serial ports. The high performance parallel port is bi-directional to support two-way communication with intelligent printers.

Dedicated mouse port

A PS/2-compatible port is fitted specifically for use by the supplied mouse. This means that both standard serial ports are free for use by other devices.

Industry-Standard

By adhering to the latest computer industry standards, Apricot engineers have ensured that the VS340 can be easily upgraded with widely available components and peripherals.

Stylish design

In this age of dreary desktop boxes, the VS340 provides a refreshing touch of practical elegance and style, in a compact desktop unit.

Built in Europe by Apricot

Apricot is one of Europe'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 BS5750 (ISO 9000) quality management systems and backed by the world class manufacturing expertise and resources of one of the world's largest industrial groups.

Technical Specifications

	VS340	575	5100
Processor			
Type		Pentium	Pentium
Clock speed (Internal)		75MHz	100MHz
Clock speed (External)		50MHz	66MHz
Internal cache		2 x 8KB	2 x 8KB
Coprocessor		Integral	Integral
Data/address bus		64/32-bits	64/32-bits
CPU socket type		321-pin ZIF (Type 7)	321-pin ZIF (Type 7)
iCOMP benchmark		610	815
Core Logic chipset		Intel 430FX PCIset	Intel 430FX PCIset
External cache			
Supplied		None	None
Maximum		256KB	256KB
Mapping		Direct	Direct
Writing scheme		Write back	Write back
RAM			
Supplied		8MB	8MB
Maximum		128MB	128MB
Type		32-bit EDO SIMM	32-bit EDO SIMM
Speed		70ns	70ns
Fitted RAM location		Motherboard	Motherboard
Parity		None	None
Sockets: total		4	4
free		2	2
Sizes supported		4, 8, 16 & 32MB	4, 8, 16 & 32MB
ROM			
Size		1MBit	1MBit
Type		Flash ROM	Flash ROM
Shadowable		Yes	Yes
Graphics			
Controller		Cirrus Logic GD5434	Cirrus Logic GD5434
Interface		PCI Local Bus	PCI Local Bus
Location		Motherboard	Motherboard
Video memory: supplied		1MB	1MB
max		2MB	2MB
type		DRAM	DRAM
Max N.I. resolution @ 1MB		1024 x 768 (256 colours)	1024 x 768 (256 colours)
Max N.I. resolution @ 2MB		1280 x 1024 (256 colours)	1280 x 1024 (256 colours)
Max N.I. colours @ 1MB		16.8 million (640 x 480)	16.8 million (640 x 480)
Max N.I. colours @ 2MB		16.8 million (800 x 600)	16.8 million (800 x 600)
Security			
Technology		BIOS Level Security	BIOS Level Security
Access control		Power On/CMOS Setup Password	Power On/CMOS Setup Password
Hardware		Case lock & security loop	Case lock & security loop
		Virus Detection	Virus Detection
		FD Disable	FD Disable

	VS340	**575**	**5100**
Expansion (free)			
Total slots		3 (1 shared PCI/ISA)	3 (1 shared PCI/ISA)
PCI		1 full	1 full
ISA		2 full & 1 half length/height	2 full & 1 half length/height
I/O ports			
Serial: quantity		2 (16550 compliant)	2 (16550 compliant)
connectors		2 x 9-pin D-SUB	2 x 9-pin D-SUB
Parallel: quantity		1	1
type		ECP/EPP compliant	ECP/EPP compliant
Dual channel PCI bus EIDE controller			
ATA IDE standard		Mode 4	Mode 4
Connector type		40-pin	40-pin
Max data transfer		16.6MB/s	16.6MB/s
Keyboard type		PS/2	PS/2
Mouse type		PS/2	PS/2
Power supply			
Rating (constant)		145W	145W
Rating (peak)		179W	179W
Type		Switched mode	Switched mode
Voltage setting		External switch	External switch
Voltage input range (AC)		90-132V & 180-264V	90-132V & 180-264V
Frequency input range		47-63Hz	47-63Hz
Max loads: +5V		18A	18A
+12V		4.2A	4.2A
-12V		0.3A	0.3A
External connectors		IEC in / IEC out	IEC in / IEC out
Floppy drive			
Type/capacity		3.5"/1.44MB	3.5"/1.44MB
Controller		Embedded	Embedded
Hard Drive			
Capacity		850MB	850MB
Type		IDE	IDE
Average access		14ms	14ms
Track to track seek		5ms	5ms
Burst data rate		6.5MB/s	6.5MB/s
Cache		128KB	128KB
MTBF		300 000 poh	300 000 poh

VS340	**ALL MODELS**	
System Dimensions		
Width x depth x height	428 x 430 x 94mm	428 x 430 x 94mm
Weight	9.5Kg	9.5Kg
Warranty		
Standard cover *(UK mainland only)*	1 year on-site limited warranty; Monitor one year on-site	
Preloaded Software		
Operating System	Window® 95, optional DOS 6.22 and Windows for Workgroups 3.11 (UK mainland only)	
Environmental		
Temperature (operating)	+10 to +35^{0}C	
Temperature (non-op.)	0 to +55^{0}C	
R. humidity (operating)	20 to 80%	
R. humidity (non-op.)	20 to 80%	
EMI/RFI approvals	$C\epsilon$ Compliant with European CE mark regulations for Emissions Susceptibility	
Safety approvals	EN60-950, UL1950	

Monitors	**14" SVGAe**	**15" FST EVGAe**	**17" FST EVGAe**	**21" Diamondtron**
Standard	SVGAe	EVGAe	EVGAe	EVGAe
CRT size (diag.)	14"	15"	17"	21"
CRT type	Anti-glare	FST anti-glare black tinted	FST dynamic focus, anti-glare/static	Diamondtron dark tint, anti-glare/static
Display area	260 x 190 (+/-3mm)	270 x 203 (+/-3mm)	290 x 218 (+/-3.5mm)	380 x 285 (+/-4mm)
Dot pitch	0.28mm	0.28mm	0.28mm	0.30mm
Phosphor	P22	P22	P22	P22
Video input	Analogue RGB	Analogue RGB	Analogue RGB	Analogue RGB
Max. video bandwidth	65MHz	110MHz	130MHz	180MHz
Max. res. x vert freq (non-interlaced)	1024 x 768 x 60Hz	1280 x 1024 x 60Hz 1024 x 768 x 75Hz	1600 x 1200 x 60Hz 1280 x 1024 x 75Hz	1600 x 1200 x 75Hz
Power: full operation	80W	100W	130W	165W
standby	<30W	<30W	<5W	<30W
active off	>5W	>5W	>5W	>11W
Power management	VESA DPMS support for EPA compliance	VESA DPMS support for EPA compliance	VESA DPMS support for EPA compliance	VESA DPMS support for EPA compliance
EMI/RFI approvals	CE mark compliant MPRII	CE mark compliant MPRII	CE mark compliant MPRII	CE mark compliant MPRII
Safety approvals	EN60-950	EN60-950	EN60-950	EN60-950
Dimensions: w x d x h (mm)	351 x 384x327	361 x 382 x 345	411 x 480 x 380	500 x 488 x 490
weight	12Kg	14Kg	23Kg	35Kg

Input Devices	**KEYBOARD**	**MOUSE**
Keys/buttons	102	2
Interface	PS/2	PS/2
Resolution	N/A	400dpi
Cable length	3m	1.83m
Dimensions: w x d x h	465 x170 x 45mm	63 x 114 x 40mm
weight	1.4Kg	127g