



apricot **LS340**

Performance workgroup
systems



Features

- ▶ 75, 100 or 133MHz Pentium CPUs
- ▶ Up to 128MB RAM
- ▶ Pre-installed 3Com Ethernet card
- ▶ 850MB hard disk
- ▶ Enhanced performance EDO RAM
- ▶ Up to 256KB pipeline burst L2 cache
- ▶ Cirrus Logic VGA video controller with up to 2MB VRAM
- ▶ Choice of configurations from entry level to high specification
- ▶ Quad speed CD-ROM drive
- ▶ Integral stereo speakers
- ▶ Power-saving standby mode
- ▶ SoundBlaster Vibra-16 for industry standard business audio
- ▶ UK built

Designed for

Microsoft®
Windows®95


pentium
PROCESSOR


Certificate No's:
FM1716 FS21715 FS30305

System Overview

For anyone who's moving their corporate computing along a Microsoft workgroup-style route, the new Apricot LS340 is the natural choice for the desktop. With thoroughbred performance and inspired design, no other machine is so perfectly equipped to explore the exciting possibilities of workgroup computing.

It's built on a high-performance chassis that features Pentium processing, coupled with local bus technology and high-speed hard disk systems. This stunning power base is brilliantly integrated with a remarkable range of special features, creating a real performance edge in key areas like networking, enhanced business audio, security, CD-ROM and graphics acceleration.

Multimedia for business

The Apricot LS340 is totally wired for sound, with integrated SoundBlaster Vibra-16 audio from the market leader Creative Labs, its own internal professional audio system. Coupled with the Sony quad speed CD-ROM, you can now have the benefit of high quality business audio through the units integral stereo speakers, digital mixing desk and FM synthesizer.

Now you're talking

Networking is an intrinsic part of the design, using an integrated network controller. It gives instant connection to all three key Ethernet standards, and - by taking over the networking load from the main processor - it gives you dramatically faster access to network data.

Inner space

Despite its slim, designer profile, there's no shortage of expansion room inside the Apricot LS340. With space for two fast IDE hard drives, and three ISA expansion slots - with a shared 32-bit PCI slot. A CD-ROM interface is standard, ready for simple, plug and go access to a wealth of information, graphical images and sounds. The Apricot LS340 is fully certified as a NetWare workstation.

Pick a Pentium

With the LS340 you choose precisely the processor you need. Even the entry model boasts at least a 75MHz Pentium processor, and the higher performance models come with a choice of 100MHz or 133MHz processors.

Faster than ever

With every new development in software, the demands placed on the computers resources increase. The LS340 range has been designed to meet all these needs - and more.

STANDARD FEATURES

Mass Storage

1.44MB floppy drive
High capacity IDE hard drives

Graphics

PCI Local bus enhanced VGA graphics
2MB Video RAM on 100 & 133MHz Pentium models

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 height & half length slot
Dual high speed serial ports
Parallel port
Socketed video memory
Cache SIMM socket

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 LS340, however, you can choose exactly the model you need for a specific situation. The entry-level 575 model using a 75MHz Pentium can cope with everything the software can throw at it - at the lowest possible cost. At the other end of the scale, the latest 133MHz processor offers the ultimate in performance, and for the best cost-effective solution there's the 100MHz Pentium. The state-of-the-art PCI 430FX PCset is designed to achieve maximum performance with the system's PCI bus.



Network ready

Every LS340 has a 3Com 3C509B ISA triple-combo Ethernet card pre-installed, ready for connection to a network. 3Com are the market leaders in networking hardware and, by adopting this technology, the LS340 is set to stay at the forefront of networking with upgrading and development support guaranteed. In addition, there is the option of specifying systems with no ethernet fitted, allowing use of other NIC's.

Memory options

By providing a choice of memory options, the LS340 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 Pentium 75MHz models to enhance their price competitiveness. In the premium Pentium 100MHz and 133MHz models, a pipeline burst L2 cache provides an increase in processing speed of up to 50%.

High capacity, high speed hard drives

Fast, powerful computers require large, high performance disk drives. The LS340 comes with a large high performance 850MB drive as standard. The PCI Bus-Master enhanced mode 4 IDE interface increases the available bandwidth to the disk drives to 16.6 Mbytes/sec ensuring that data transfer is carried out at the drives' maximum capacity.

Slimline chassis design

The LS340 has been designed with a compact desktop chassis. This combines the traditional elegance and style of the Apricot marque with an attractive front panel layout and ample room for expansion. The LS340 motherboard uses the Intel Type 7 CPU socket, which incorporates support for 'as yet' unannounced Pentium processors, giving the buyer a wide range of choice for future options.

Video acceleration

The stunning video performance of the LS340 is made possible by the use of accelerated local bus video processors. The Cirrus Logic GD5436 video controller uses the PCI local bus to link with the main system processor, ensuring that even the most graphically intensive application moves like lightning.

Video RAM

The Cirrus Logic GD5436 video controller has 2MB* of EDO video memory, which means that every LS340 is capable of providing non-interlaced, high resolutions straight from the box.

Industry standard

By adhering to the latest computer industry standards, Apricot engineers have ensured that the LS340 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.

* Applies to all 100MHz and 133MHz models, 1MB VRAM on 75MHz model

Technical Specifications

	LS340	575	5100	5133
Processor				
Type	Pentium	Pentium	Pentium	Pentium
Clock speed (Internal)	75MHz	100MHz	100MHz	133MHz
Clock speed (External)	50MHz	66MHz	66MHz	66MHz
Internal cache	2x8KB	2x8KB	2x8KB	2x8KB
Coprocessor	Integral	Integral	Integral	Integral
Data/address bus	64/32-bits	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)	321-pin ZIF (Type 7)
iCOMP benchmark	610	815	815	1110
Core Logic chipset	Intel 430FX PCIset	Intel 430FX PCIset	Intel 430FX PCIset	Intel 430FX PCIset
External cache				
Supplied	None	256KB pipeline burst	256KB pipeline burst	256KB pipeline burst
Maximum	256KB	256KB	256KB	256KB
Mapping	Direct	Direct	Direct	Direct
Writing scheme	Write back	Write back	Write back	Write back
Cache speed	-	66MHz	66MHz	66MHz
RAM				
Supplied	8MB	8MB	8MB	8MB
Maximum	128MB	128MB	128MB	128MB
Type	32-bit EDO SIMM	32-bit EDO SIMM	32-bit EDO SIMM	32-bit EDO SIMM
Speed	70ns	70ns	70ns	70ns
Fitted RAM location	Motherboard	Motherboard	Motherboard	Motherboard
Parity	None	None	None	None
Sockets: total	4	4	4	4
free	2	2	2	2
Sizes supported	4, 8, 16 & 32MB	4, 8, 16 & 32MB	4, 8, 16 & 32MB	4, 8, 16 & 32MB
ROM				
Size	1Mbit	1Mbit	1Mbit	1Mbit
Type	Flash ROM	Flash ROM	Flash ROM	Flash ROM
Shadowable	Yes	Yes	Yes	Yes
Graphics				
Controller	Cirrus Logic GD5436	Cirrus Logic GD5436	Cirrus Logic GD5436	Cirrus Logic GD5436
Interface	PCI Local Bus	PCI Local Bus	PCI Local Bus	PCI Local Bus
Location	Motherboard	Motherboard	Motherboard	Motherboard
Video memory: supplied	1MB	2MB	2MB	2MB
max	2MB	2MB	2MB	2MB
type	DRAM	EDO RAM	EDO RAM	EDO RAM
Max N.I. resolution @ 1MB	1024x768 (256 colours)	N/A	N/A	N/A
Max N.I. resolution @ 2MB	1280 x1024 (256 colours)	1280 x1024 (256 colours)	1280 x1024 (256 colours)	1280 x1024 (256 colours)
Max N.I. colours @ 1MB	16.8 million (640x480)	N/A	N/A	N/A
Max N.I. colours @ 2MB	16.8 million (800x600)	16.8 million (800x600)	16.8 million (800x600)	16.8 million (800x600)
Security				
Technology	BIOS Level Security	BIOS Level Security	BIOS Level Security	BIOS Level Security
Access control	Power On/ CMOS Setup Password Virus Detection FD Disable	Power On/ CMOS Setup Password Virus Detection FD Disable	Power On/ CMOS Setup Password Virus Detection FD Disable	Power On/ CMOS Setup Password Virus Detection FD Disable
Hardware	Case lock & security loop	Case lock & security loop	Case lock & security loop	Case lock & security loop



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	LS340	575	5100	5133
Expansion				
Total slots		3 (1 shared PCI/ISA)	3 (1 shared PCI/ISA)	3 (1 shared PCI/ISA)
PCI		1 full length	1 full length	1 full length
ISA		2 full & 1 half length/height	2 full & 1 half length/height	2 full & 1 half length/height
*Network card uses one half length ISA.				
I/O 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 controller				
ATA IDE standard		Mode 4	Mode 4	Mode 4
Connector type		40-pin	40-pin	40-pin
Max data transfer		16.6MB/s	16.6MB/s	16.6MB/s
Keyboard type		PS/2	PS/2	PS/2
Mouse type		PS/2	PS/2	PS/2
Power 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	18A
+12V		4.2A	4.2A	4.2A
-12V		0.3A	0.3A	0.3A
External connectors		IEC in / IEC out	IEC in / IEC out	IEC in / IEC out
Floppy drive				
Type/capacity		3.5"/1.44MB	3.5"/1.44MB	3.5"/1.44MB
Controller		Embedded	Embedded	Embedded
Audio				
Type		SoundBlaster Vibra-16	SoundBlaster Vibra-16	SoundBlaster Vibra-16
Ports		Microphone, line-in, speaker-out, line-out, game port	Microphone, line-in, speaker-out, line-out, game port	Microphone, line-in, speaker-out, line-out, game port
Speakers		Stereo internal, Optional external	Stereo internal, Optional external	Stereo internal, Optional external
Networking				
Standard interface		509B combo	509B combo	509B combo
Bus		ISA	ISA	ISA
Media		10-base 2 (BNC), 10-base 5 (AUI) 10-base T (UTP)	10-base 2 (BNC), 10-base 5 (AUI) 10-base T (UTP)	10-base 2 (BNC), 10-base 5 (AUI) 10-base T (UTP)
Transfer rate		10Mbit/s	10Mbit/s	10Mbit/s
CD-ROM				
Type		CDU77E	CDU77E	CDU77E
Rotational speed		x4	x4	x4
AV access		190ms	190ms	190ms
Transfer rate		600KB/s	600KB/s	600KB/s

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LS340	ALL MODELS
Hard Drives	850MB
Type	E-IDE
Average access	14ms
Track to track seek	6.5ms
Burst data rate	10.5MB/s
Cache	128KB
MTBF	300 000 poh

System Dimensions	
Width x depth x height	428 x 430 x 94mm
Weight	9.5Kg

Warranty	
Standard cover (UK mainland only)	3 year limited warranty (1st year on-site, 2nd & 3rd parts only); Monitor one year on-site only

Preloaded Software	
Operating System	Window® 95, optional DOS 6.22 and Windows for Workgroups 3.11

Environmental	
Temperature (operating)	10 to +35°C
Temperature (non-op.)	0 to +55°C
R. humidity (operating)	20 to 80%
R. humidity (non-op.)	20 to 80%
EMI/RFI approvals	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	CE mark compliant	CE mark compliant	CE mark compliant
Safety approvals	MPRII	MPRII	MPRII	MPRII
Dimensions: w x d x h (mm)	EN60-950	EN60-950	EN60-950	EN60-950
weight	351 x 384x327 12Kg	361 x 382 x 345 14Kg	411 x 480 x 380 23Kg	500 x 488 x 490 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 weight	465 x 170 x 45mm 1.4Kg	63 x 114 x 40mm 127g

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