



The ultimate networking business PC



### **Features of Pentium Pro Models**

- ▶180 or 200MHz CPUs
- ▶1.7GB E-IDE high performance hard disk
- ► Fast access EDO RAM
- ≥256Kb L2 cache

### **Features of Pentium Models**

- ►75, 100, 133, 166 or 200MHz Pentium CPUs
- ► Choice of 850MB, 1.2GB or 1.7GB high performance hard disk
- ► Enhanced performance EDO RAM
- ▶Up to 256KB pipeline burst L2 cache

### **Features of all Models**

- ▶ Pre-installed 3Com Ethernet card
- ► High performance PCI graphic accelerators
- ► Wide choice of configurations from entry level to high specification
- Power-saving standby mode with fast recovery
- SoundBlaster Vibra-16 for industry standard business audio
- ▶ Optional 10/100Mbit/sec Ethernet card
- ►UK Built







## System Overview

The LS550 range from Apricot meets all the needs of the corporate or volume business user. Fully specified, with a choice of the very latest Pentium or Pentium Pro processors, hard disks and advanced memory technology, every LS550 is designed to offer the widest possible choice of price and specification so that you can put exactly the right model on each desktop, with no limits on processing power, speed, capacity or performance.

One of the LS550's most important features is it's fully-integrated networking facility. This means that every model in the LS550 range is available with a choice of 10 or 100Mbit/s ethernet technology preinstalled, ready to run. High quality business audio is another standard feature, ready to exploit the new technologies of voice messaging and other audio applications. With the in-built CD-ROM the LS550 is also a state-of-the-art multimedia machine, ready to unleash the potential of the latest, most demanding software.

### **Pick a Pentium**

With the LS550, you can choose precisely the processor you need. Even the entry level models boast at least a 75 or 100MHz Intel Pentium chip, and the higher performance models come with a choice of 100, 133, 166 or 200MHz processors.

For maximum performance, suited for true 32-bit operating systems and applications, the latest Pentium Pro processors are ideal. Available with clock speeds of 180 & 200MHz these systems are at the leading edge of personal computing performance.

### **Ready to network**

The LS550 computer has a market-leading 3Com ISA standard Ethernet card already installed and ready to connect. Whether you are using thick, thin

or UTP cable, you can literally "plug and go". You also have the option of a 3Com PCI 10/100 autosensing Ethernet card, for optimum performance with current 10 Mbit/sec networks and guaranteed upgradeability to the emerging 100Mbit/sec network. For corporates with investment in other NIC's, LS550 systems can be supplied without a network card, allowing integration with Token Ring and other networking technologies

### **Faster than ever**

With every new development in software, the demands placed on the computer's resources increase. The LS550 range has been designed to meet all these needs - and more.

In Pentium based 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, while on the 100 and faster models, a 256KB pipeline burst cache on allows them to maximise the processor's performance.

Pentium Pro models include DIMM memory technology, utilising high specification 60nS parts and benefiting from an advanced four-way interleave configuration, this provides a memory sub-system that has been designed specifically for the demands of Pentium Pro CPUs.

### Sounds good

All except the entry level models incorporate integrated SoundBlaster Vibra-16 audio from the market leader Creative Labs. Coupled with the high speed Sony CD-ROM, you can now have the benefit of high quality business audio through the unit's built-in speaker, or, for maximum quality through external speakers.

### **STANDARD FEATURES**

### **Mass Storage**

1.44MB floppy drive Choice of high speed IDE hard drives

### **Graphics**

PCI Local bus enhanced VGA graphics

### **Pre-installed Software**

Windows NT Workstation 3.51 (Pentium Pro Models)
Windows® 95 or DOS 6.22 and Windows for Workgroups (Pentium Models)

### **Expansion**

Multiple PCI and ISA expansion slots Dual high speed serial ports Parallel port Socketed video memory

### **Peripherals**

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

### Features and Benefits

### **Pentium Pro processors**

The latest 64-bit processor family from Intel provides new levels of raw processing power. With options from 180 to 200MHz, the LS550 system can minimise the run time of processor intensive tasks. We have integrated the Intel 450GX PCIset chipset to ensure that the levels of performance required for high end graphics and engineering applications are attained.

### **Pentium processing power**

Pentium processors have rapidly become the industry standard. With the LS550, 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. At the other end of the scale, the latest 200MHz chips offer the ultimate in performance, and for the best combination of price and performance there's the 100 and 133MHz Pentiums. The state-of-the-art Intel 430FX PCIset chipset is designed to achieve maximum performance with the system's PCI bus.

### **Network ready**

Every LS550 has its 3Com3C509B 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 LS550 is guaranteed to stay at the forefront of networking technology, with upgrading and development support guaranteed. In addition, there is the option of a 3Com 3C595TX PCI 10/100 Mbit/sec card for organisations planning to upgrade to the developing 100Mbit/sec network standard. This card will automatically sense whether it is connected to a 10 or 100Mbit/sec network, and configures itself automatically. For Token-Ring users, or corporates who have standardised on alternative Network interface cards, each LS550 system can be supplied without the network interface.

### **Memory options**

By providing a choice of memory options, the LS550 models allow even more opportunities for matching performance against budget. EDO SIMM memory has enhanced features which reduce the need for a cache: this feature is fully exploited in the Pentium 75 models to enhance their price competitiveness. In the Pentium 100+ MHz models a pipeline burst mode cache provides an increase in processing speed of up to 50%.

The Pentium Pro models utilise ultra high speed DIMM memory technology with 60nS access timing. Incorporating an advanced four-way interleave configuration with the addition of ECC, the LS550 models match the Pentium Pro power with a tighly coupled state-of the-art memory subsystem.

### High capacity, high speed hard drives

Fast, powerful computers require large, high performance disk drives. The LS550 comes with a choice of a large 850MB, 1.2GB or a massive 1.7GB drive, with exceptionally high performance. 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.

### **Future-proof chassis design**

The LS550 uses a chassis designed with the future in mind. It combines the traditional elegance and style of the Apricot marque with an attractive front panel layout and ample room for expansion. The design anticipates future processor developments, for example the LS550 Pentium based motherboard incorporates the Intel Type 7 CPU socket which incorporates support for as yet unannounced Pentium processors, giving the buyer a wide range of options for choice in the future.

### **Video acceleration**

The stunning video performance of the LS550 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 most graphically intensive applications move like lightning.

In Pentium Pro models graphic performance is increased even further, by the inclusion of a Matrox Millenium PCI accelerator with up to 4MB of WRAM provided as standard.

All LS550 video controller memory can be expanded; entry level systems to 2MB of video memory, higher end products up to 4MB.

### **Industry standard**

By adhering to the latest computer industry standards, Apricot engineers have ensured that the LS550 can be easily upgraded with widely available components and peripherals.

# **Technical Specifications**

LS550 cessor	575E / 5100E	575/5100	5133/166/200	6180/6200
Туре	Pentium	Pentium	Pentium	Pentium Pro
Clock speed (Internal)	75MHz / 100MHz	75MHz / 100MHz	133MHz / 166MHz / 200MHz	
Clock speed (External)	50MHz / 66MHz	50MHz /66MHz	66MHz	60MHz / 66MHz
Internal cache	2x8KB	2x8KB	2x8KB	256KB
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)	387-pin ZIF (Type 8)
iCOMP benchmark	610 / 815	610 / 815	1110 / 1308 / -	-
Core Logic chipset	Intel 430FX PCIset	Intel 430FX PCIset	Intel 430FX PCIset	Intel 450GX PCIset
ernal cache				
Supplied	None / 256KB async	None / 256KB pipeline burst	256KB pipeline burst	-
Maximum	256KB	256KB	256KB	-
Mapping	Direct	Direct	Direct	-
Writing scheme	Write back	Write back	Write back	_
Cache speed	- / 15ns	- / 15ns	- / 15ns	
=	- / 1 )118	- / 1 )118	- / 1 JHS	-
<b>A</b>	0 / 1 (MP)	0 / 1/A/D	0 / 1/3/ID	16 / 22MD
Supplied	8 / 16MB	8 / 16MB	8 / 16MB	16 / 32MB
Maximum	128MB	128MB	128MB	512MB
Type	32-bit EDO SIMM	32-bit EDO SIMM	32-bit EDO SIMM	72-bit ECC DIMM
Speed	70ns	70ns	70ns	60ns
Fitted RAM location	Motherboard	Motherboard	Motherboard	Motherboard
Parity	None	None	None	None
Sockets: total	4	4	4	4
free	2	2	2	3
Sizes supported	4, 8, 16 & 32MB	4, 8, 16 & 32MB	4, 8, 16 & 32MB	16, 32, 64, 128MB*
*Additional DIMM modules i	must be of equal capacity to exis	ting modules. Supported options a	re 1, 2, or 4 DIMMs.	
4				
Size	1Mbit	1Mbit	1Mbit	4Mbit
4				4Mbit Flash ROM
Size	1Mbit	1Mbit	1Mbit	
Size Type	1Mbit Flash ROM	1Mbit Flash ROM	1Mbit Flash ROM	Flash ROM
Size Type Shadowable phics Controller	1Mbit Flash ROM Yes	1Mbit Flash ROM Yes	1Mbit Flash ROM Yes Cirrus Logic GD5436	Flash ROM Yes Matrox Millennium
Size Type Shadowable phics	1Mbit Flash ROM Yes	1Mbit Flash ROM Yes Cirrus Logic GD5436 PCI Local Bus	1Mbit Flash ROM Yes	Flash ROM Yes  Matrox Millennium PCI Local Bus
Size Type Shadowable phics Controller	1Mbit Flash ROM Yes	1Mbit Flash ROM Yes	1Mbit Flash ROM Yes Cirrus Logic GD5436	Flash ROM Yes Matrox Millennium
Size Type Shadowable phics Controller Interface	1Mbit Flash ROM Yes Cirrus Logic GD5434 PCI Local Bus	1Mbit Flash ROM Yes Cirrus Logic GD5436 PCI Local Bus	1Mbit Flash ROM Yes Cirrus Logic GD5436 PCI Local Bus	Flash ROM Yes  Matrox Millennium PCI Local Bus
Size Type Shadowable phics Controller Interface Location	1Mbit Flash ROM Yes Cirrus Logic GD5434 PCI Local Bus Motherboard	1Mbit Flash ROM Yes  Cirrus Logic GD5436 PCI Local Bus Motherboard	1Mbit Flash ROM Yes  Cirrus Logic GD5436 PCI Local Bus Motherboard	Flash ROM Yes  Matrox Millennium PCI Local Bus PCI expansion
Size Type Shadowable phics  Controller Interface Location Video memory: :supplied max	1Mbit Flash ROM Yes Cirrus Logic GD5434 PCI Local Bus Motherboard 1MB 2MB	1Mbit Flash ROM Yes  Cirrus Logic GD5436 PCI Local Bus Motherboard 1MB / 2MB 2MB	1Mbit Flash ROM Yes  Cirrus Logic GD5436 PCI Local Bus Motherboard 2MB 2MB	Flash ROM Yes  Matrox Millennium PCI Local Bus PCI expansion 2MB / 4MB 4MB
Size Type Shadowable phics  Controller Interface Location Video memory: :supplied max type	1Mbit Flash ROM Yes Cirrus Logic GD5434 PCI Local Bus Motherboard 1MB 2MB DRAM	1Mbit Flash ROM Yes  Cirrus Logic GD5436 PCI Local Bus Motherboard 1MB / 2MB 2MB EDO DRAM	1Mbit Flash ROM Yes  Cirrus Logic GD5436 PCI Local Bus Motherboard 2MB 2MB EDO DRAM	Flash ROM Yes  Matrox Millennium PCI Local Bus PCI expansion 2MB / 4MB 4MB WRAM
Size Type Shadowable phics  Controller Interface Location Video memory: :supplied max type Max N.I. resolution @ 1MB	1Mbit Flash ROM Yes  Cirrus Logic GD5434 PCI Local Bus Motherboard 1MB 2MB DRAM 1024x768 (256 colours)	1Mbit Flash ROM Yes  Cirrus Logic GD5436 PCI Local Bus Motherboard 1MB / 2MB 2MB EDO DRAM 1024x768 (256 colours)	1Mbit Flash ROM Yes  Cirrus Logic GD5436 PCI Local Bus Motherboard 2MB 2MB EDO DRAM N/A	Flash ROM Yes  Matrox Millennium PCI Local Bus PCI expansion 2MB / 4MB 4MB WRAM 1600x1200 (256 colours)/N/A
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MITSUBISHI ELECTRIC PC DIVISION

Apricot Computers Ltd 3500 Parkside Birmingham Business Park Birmingham B37 7YS United Kingdom Tel: +44 (0) 121 717 7171 Fax: +44 (0) 121 717 7799 MITSUBISHI ELECTRIC PC DIVISION

Apricot Computers Ltd 29 Rutherford Road Southfield Industrial Estate Glenrothes, Fife, KY6 2RT United Kingdom Tel: +44 (0) 1592 773666 Fax: +44 (0) 1592 773427 MITSUBISHI ELECTRIC PC DIVISION

Apricot Computers Ltd Niederlassung Deutschland Gothaer Strasse 27 40880 Ratingen Germany Tel: +49 (0) 2102 4556 Fax: +49 (0) 2102 455700

LS550	0	575E / 5100E	575/5100	5133/166/200	6180/6200	
O ports						
Serial:	quantity	2 (16550 compliant)	2 (16550 compliant)	2 (16550 compliant)	2 (16550 compliant)	
	connectors	2 x 9-pin D-SUB				
Parallel:	quantity	1	1	1	1	
	type	ECP/EPP compliant	ECP/EPP compliant	ECP/EPP compliant	ECP/EPP compliant	
Dual ch	annel PCI bus EIDE		1	1	1	
	ATA IDE standard	Mode 4	Mode 4	Mode 4	Mode 4	
	Connector type	40-pin	40-pin	40-pin	40-pin	
	Max data transfer		16.6MB/s	16.6MB/s	16.6MB/s	
Keyboar		PS/2	PS/2	PS/2	PS/2	
Mouse t		PS/2	PS/2	PS/2	PS/2	
ver sup	, I					
Rating	(constant)	145W	145W	145W	180W	
Rating (		179W	179W	179W	100 W	
	реак)	Switched mode	Switched mode	Switched mode	Switched mode	
Type Voltage	cetting	External switch	External switch	External switch	External switch	
	input range (AC)	90-132V & 180-264V	90-132V & 180-264V	90-132V & 180-264V	90-132V & 180-264V	
	cy input range	47-63Hz	47-63Hz	47-63Hz	47-63Hz	
Max loa	, 1	18A	18A	18A	2.3A	
Max 10a	412V	4.2A	4.2A	4.2A	4.5A	
	+12V -12V	4.2A 0.3A	4.2A 0.3A	4.2A 0.3A	4.5A 0.5A	
E	-12 v	IEC in / IEC out				
External ppy driv		IEC in / IEC out				
Type/ca		3.5"/1.44MB	3.5"/1.44MB	3.5"/1.44MB	3.5"/1.44MB	
Control	ler	Embedded	Embedded	Embedded	Embedded	
lio						
Туре		-	SoundBlaster Vibra-16	SoundBlaster Vibra-16	SoundBlaster Vibra-16	
Ports		=	Microphone, line-in,	Microphone, line-in,	Microphone, line-in,	
		=	speaker-out, line-out,	speaker-out, line-out,	speaker-out, line-out,	
		-	game port	game port	game port	
Speakers	S	-	Single internal,	Single internal,	Single internal,	
		-	optional external	optional external	optional external	
working	g					
Standard	d interface	3C590B combo	3C590B combo	3C590B combo	3C590B combo	
Bus		ISA	ISA	ISA	ISA	
Media		10-base 2 (BNC),	10-base 2 (BNC),	10-base 2 (BNC),	10-base 2 (BNC),	
		10-base 5 (AUI)	10-base 5 (AUI)	10-base 5 (AUI)	10-base 5 (AUI)	
		10-base T (UTP)	10-base T (UTP)	10-base T (UTP)	10-base T (UTP)	
Transfer	rate	10Mbit/s	10Mbit/s	10Mbit/s	10Mbit/s	
10/100		3C595TX	3C595TX	3C595TX	3C595TX	
Bus		PCI	PCI	PCI	PCI	
Media		10-base T (UTP)	10-base T (UTP)	10-base T (UTP)	10-base T (UTP)	
Transfer	rate	10/100Mbit/s auto sensing	10/100Mbit/s auto sensing	10/100Mbit/s auto sensing	10/100Mbit/s auto sensing	
ROM	Tute	10/1001/1016/3 auto sensing	10/1001/10it/s auto sensing	10/1001/10it/s auto sensing	10/1001v101c/3 acted sensing	
Туре		_	CDU77E	CDU111	CDU111	
	nal speed	_	x4	x6	x6	
AV acces		_	190ms	180ms	180ms	
		-	600KB/s	900KB/s	900KB/s	
Transfer						

West Gate Business Park Ballymount Dublin 24 Ireland Tel: +353 (0) 1 450 5007 Fax: +353 (0) 1 456 1337

### MITSUBISHI ELECTRIC CORPORATION PC DIVISION

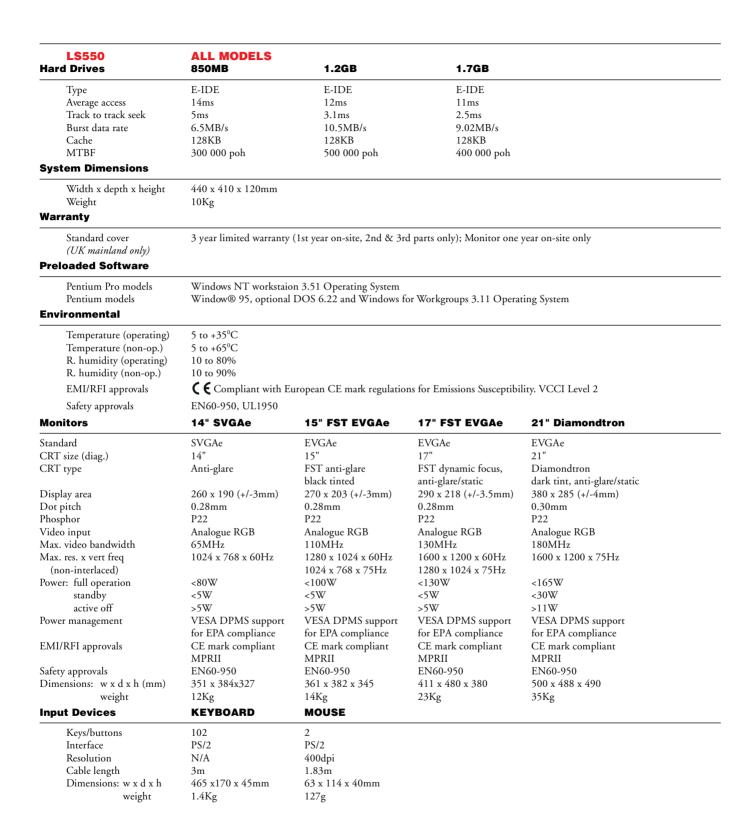
Apricot Business Centre 325 Kamimachiya Kamakura Kanagawa 247 Japan Tel: +81 467 43 8212 Fax: +81 467 43 8397

### MITSUBISHI ELECTRIC CORPORATION

MISUBISH ELECTRIC CORPORATION PC DIVISION Information & Communication Systems Group 2-3 Marunouchi 2-chome, Chiyoda-ku Tokyo 100 Japan

### LCI COMPUTER IMPORT (BELGIUM)

Sterrebeekstraat 179 D3 1930 Zaventem Belgium Tel: +32 2 725 4343 Fax: +32 2 720 8610



AS b.v Herenweg 92 2102 MP Heemstede Holland

Holland Tel: +31 23 5 47 11 41 Fax: +31 23 5 29 32 33 INTERMEDIUM NETWORKS A/S

Odinsvej 19 DK-2600 Glostrup Denmark Tel: +45 43 26 02 00 Fax: +45 43 26 02 03 MITSUBISHI ELECTRIC (TAIWAN) CO LTD

6th Floor Chung-Ling Building 363 SEc, 2 Fu Hsing Rd Taipei ROC Tel: +886 2733 2898 Fax: +886 2735 6244 WORACHAK INTERNATIONAL CO LTD

Bangna Tower B, 11th-15th Floor 2/3 Moo 14 Bangna-Trad Km 6.5 Bangkaew, Bangplee Samutprakam 10540 Thailand

Tel: +662 312 0707/0808 Fax: +662 312 0800

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