

Acorn A7000+

Introduction

The A7000+ from Acorn is the new high-performance, low-cost point of computing entry, ideal for home use or connection to a wide range of networks. It reflects Acorn's historic dedication to the design of RISC OS computers that provide the broadest choice of performance and options at realistic prices. The combination of a fast 48MHz ARM 7500FE processor and high-speed EDO DRAM give a dramatic improvement in desktop performance.

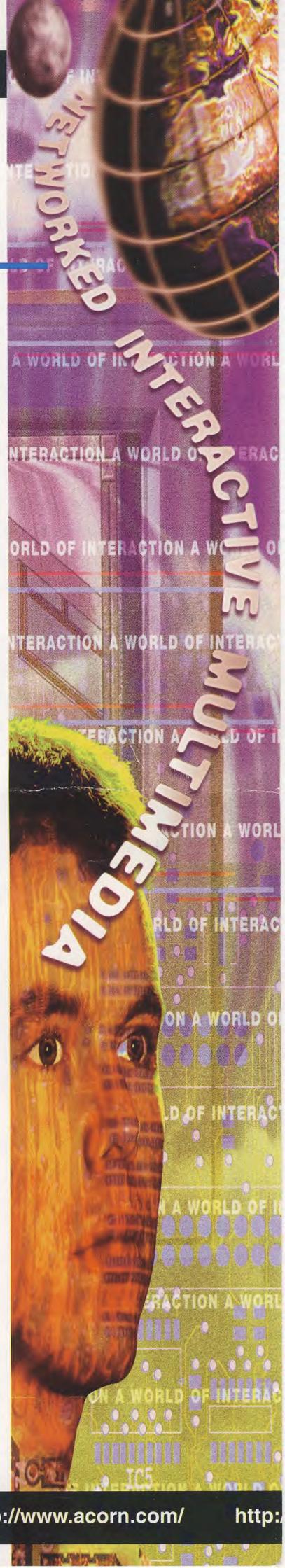


The Acorn A7000+ is a RISC OS computer with a performance similar to the Risc PC. It is easy to use, and brings the user the advantages of improved performance speed, a larger hard disc, massive RAM capability, 16-bit digital-quality sound, more colours, higher resolution and an integral CD-ROM drive option.

An overview

The Acorn A7000+ offers:

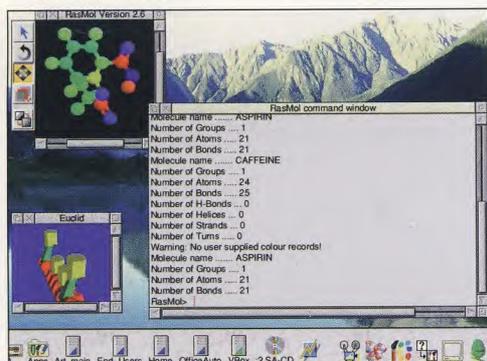
- integrated Floating Point Accelerator
- RISC OS 3.71
- a small desktop footprint
- integrated 16-bit digital stereo sound as standard
- a low-cost, highly integrated desktop solution
- VGA, SVGA and other resolutions up to 1280 x 1024
- 1.2Gb IDE hard disc and CD-ROM option
- 2MB floppy disc drive (unformatted)
- expansion slots providing multiple options including ATM, Ethernet, MPEG and SCSI.



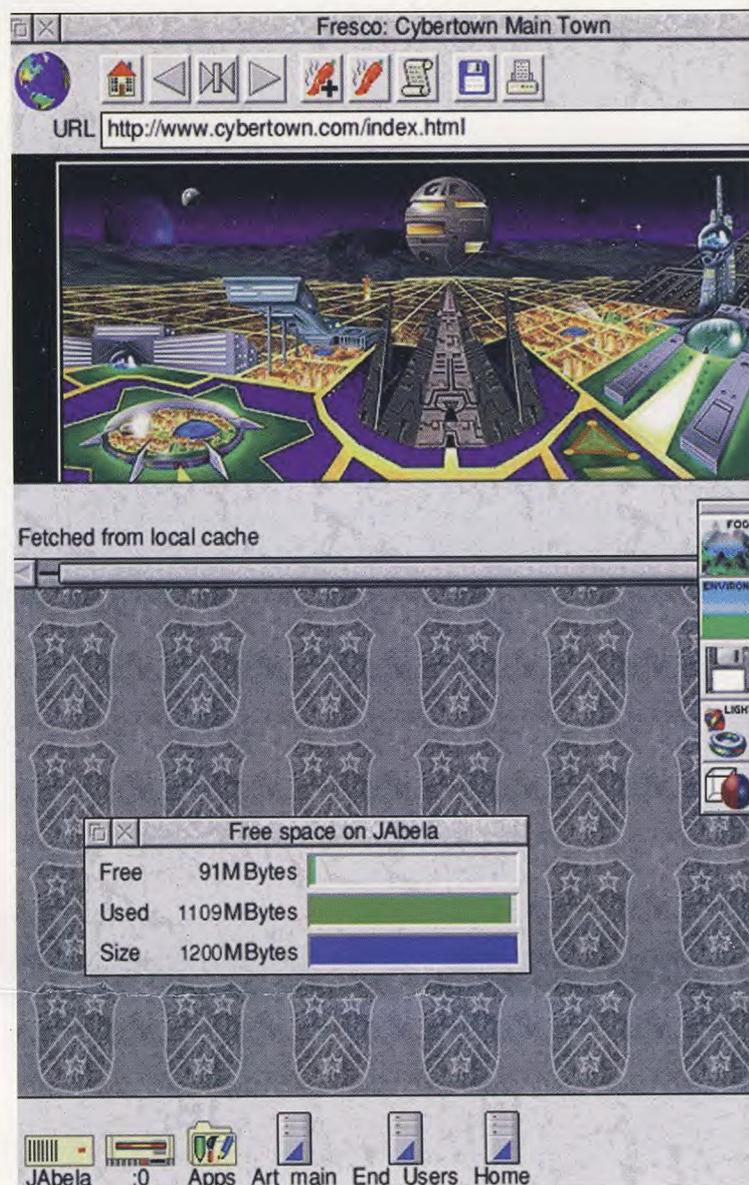
A huge range of RISC OS software - over 3000 titles - exploit the unique capabilities of the Acorn operating system, and give access to a variety of resources, allowing numerous applications to be run at the same time.

In a network environment, the Acorn A7000+ is the ideal machine for running RISC OS applications while integrating into legacy networks and platforms to provide access to standard groupware applications on NT or UNIX. The A7000+ also includes a dedicated network slot to ensure integration with Ethernet networks, and the sharing of software and peripherals for greater cost-effectiveness.

In the home, the A7000+ is appropriate for children and adults alike. Giving the child the correct tools will enhance their skills and confidence, while preparing them for any future computing requirements. Adult users will also acknowledge how well the A7000+ fits their computing needs.

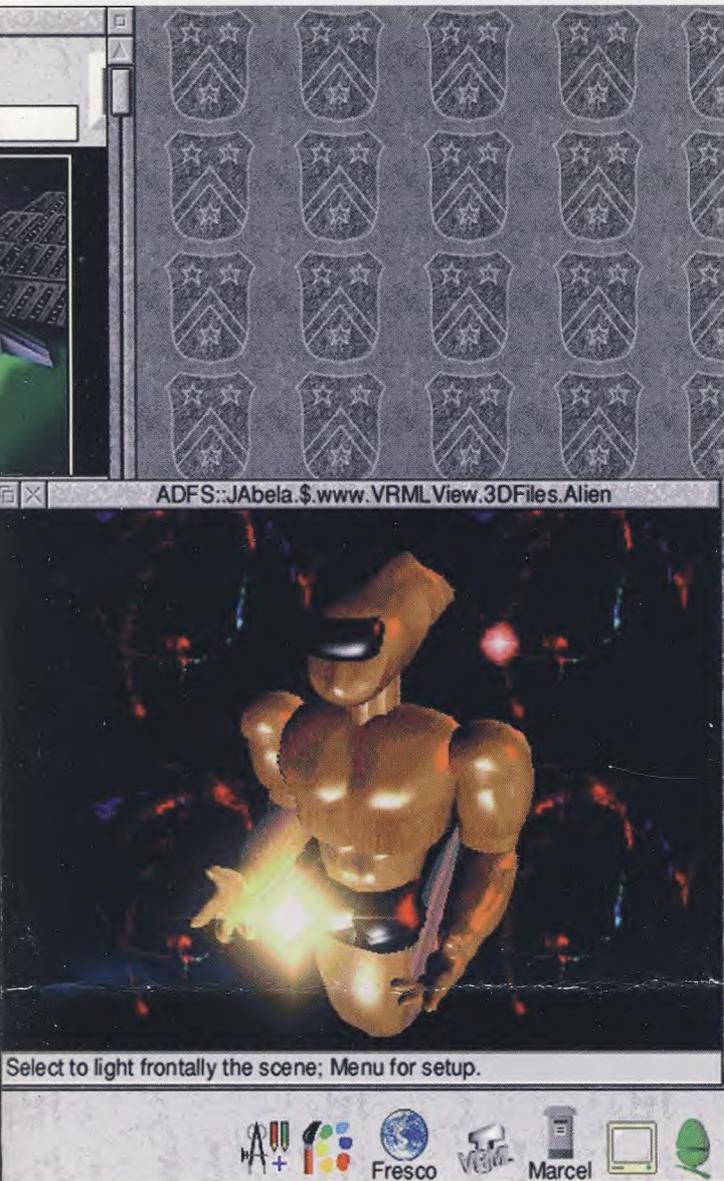


Straight out of the box, the A7000+ is ready to use, is complete with a number of RISC OS applications and has a very simple-to-use interface.



The extra horsepower means !Replay movies now run smoothly, even at 25 frames per second. Boot-up time has been reduced to just 15 seconds and the improved memory bandwidth courtesy of the EDO RAM means the A7000+ can now display 1024 x 768 resolution screen modes in up to 256 colours or 800 x 600 with up to 32,000 colours.

A unique technology - anti-aliasing - means on-screen pictures are clear and sharp. Small text is easily readable, and the A7000+'s large memory capacity ensures operating speed is maintained.



Acorn floating point accelerator

Computationally intensive applications benefit from the Acorn Floating Point Accelerator, which provides high-precision calculation at speed, fast 3D rendering and good X terminal performance.

RISC OS

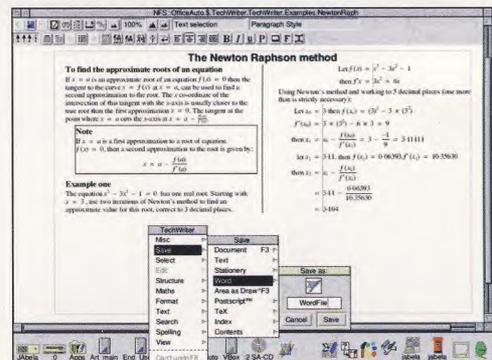
The A7000+ operating system - RISC OS - is a stable, scalable multitasking operating system, which has been designed to run from ROM, leaving nearly all of the hard disc available for your own requirements. Conserving system memory and virus protection are other

advantages of the RISC OS ROM-based operating system. Shipping in over 600,000 systems worldwide indicates the suitability to large number of applications, from regular productivity tools including spreadsheets and database applications through to sophisticated multimedia authoring and video editing systems.

Complete user control

RISC OS recognises that every one needs to use their machine in their own individual way. A number of unique facilities enable on-the-fly configuration of screen resolution and memory usage to adapt to specific applications and requirements.

A large desktop gives easy access to any application or file. Opening, moving, modifying or copying files and directories is as simple as clicking and dragging. The Pinboard allows icons to be pinned to the desktop for quick access and an icon bar lets you control any application that has been loaded.



Standard applications include:

- !Edit
- !Draw
- !Paint
- !Alarm
- !ARplayer
- !CDplayer
- !Maestro
- !Photoview.

Technical Specification

32-bit ARM RISC processor

- 48MHz ARM 7500 FE giving around 29 MIPS (dhrystone 2.1) peak performance
- 4KB instruction and data cache
- Write buffer for enhanced performance
- Fully static operation for low power consumption
- Integrated IO, MMU and video subsystems

Memory

- 8MB EDO RAM on board and one EDO RAM socket for up to 128MB SIMM
- 4MB Page Mode ROM
- 240B battery backed-up CMOS SRAM
- Unique reference 48-bit software-readable unique identifier for use by networking software

System software

- RISC OS 3.71 ROM-based operating system capable of supporting soft-loadable extensions

Audio

- CD-quality 16-bit stereo digital sound system with mixer for second internal audio source (e.g. CD-ROM)
- 3.5mm stereo jack socket capable of driving 32-ohm headphones or for use as a line output, plus internal speaker

Video

Modes include:

- 32K modes in 800 x 600
- 256 colours in 1024 x 768
- 16 million colours in 480 x 352
- 16 colours in 1280 x 1024

Expansion

- Dedicated network expansion slot giving choice of Ethernet (10Base2, 10BaseT) or ATM
- 32-bit EASI expansion slot
- 5.25" drive bay for second IDE hard disc or ATAPI CD-ROM drive

Storage

- Optional 8-speed CD-ROM drive model available 1200Kb per second data transfer rate
- Internal mass storage 1.2Gb hard drive 2MB 3.5" floppy disc drive

I/O ports and interfaces

- RS 232 serial port with 9-pin D-type connector
- Parallel printer port with 25-pin D-type connector
- PS2 interfaces for both keyboard and 3-button mouse
- Monitor output via a standard 15-way high-density D-type connector

Physical

- Dimensions: width 357mm, depth 283mm, height 102 mm
- Weight approx 4kg
- 103-key PS2-style keyboard and 3-button PS2 mouse

Electrical

- Integral 35W switched mode PSU with IEC 320 power inlet and outlet connectors
- Auto-ranging PSU from 110V to 240VAC, 50 or 60Hz

For further information contact.

Centres of technology: 0990 329070

Acorn Computer Group plc • Acorn House • 645 Newmarket Road
Cambridge • United Kingdom • CB5 8PB
Telephone: +44(0) 1223 725921 • Facsimile: +44(0) 1223 725435 • Email: sales@acorn.co.uk
Switchboard: +44(0) 1223 725000 • <http://www.acorn.com/>



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