

A7000

- Low cost, highly integrated desktop solution
- 32 MHz ARM7500 (32 bit RISC) integrated CPU
- ROM-based operating system with soft loadable extensions
- RAM expandable to 136 MBytes
- Capable of discless operation
- Comprehensive hardware peripheral support:
 - IDE hard disc +ATAPI CD-ROM
 - 2MByte floppy disc drive
 - Expansion slots providing multiple options including ATM, Ethernet, MPEG and SCSI
- Up to 24 BPP colour displays
- VGA, SVGA and other resolutions up to 1280 x 1024
- Integrated 16 bit digital stereo sound system
- Low power consumption (internal 35 Watt PSU)
- Rugged and proven
- Small desktop footprint
- Available as:
 - Standard product "ex stock"
 - Licensable design
 - Sub component assemblies (i.e. main PCB)
 - Custom design variant
 - ARM 7500 development platform

Technical Overview

32-bit ARM RISC Processor - ARM7500

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

Memory

- 2, 4 or 8MByte fast page mode DRAM mounted on the base card PLUS one SIMM socket for further expansion. Maximum theoretical memory 136MByte.
- 4MByte page mode ROM
- 240Byte battery backed CMOS SRAM

Unique Reference

- 48-bit software-readable unique identifier for use by networking software

System Software

- RISC OS 3.6 ROM based operating system capable of supporting soft-loadable extensions

Audio

- CD quality 16 bit stereo digital sound system with mixer for 2nd internal audio source (eg CD-ROM)
- 3.5 mm stereo jack socket capable of driving 32 Ohm headphones or for use as a line output, plus internal speaker

Video

- Wide variety of screen modes including:

1280 x 1024 at 2 BPP (4 greys) 60Hz
1024 x 768 at 4 BPP (16 colours) 60Hz
800 x 600 at 8 BPP (256 colours) 56 Hz
640 x 480 at 8 BPP (256 colours) 75 Hz
480 x 352 at 16 BPP (32K colours) 70 Hz
240 x 352 at 24 BPP (16M colours) 70 Hz

Expansion

- Dedicated network expansion slot giving a choice of Ethernet (10base2, 10 baseT) or ATM
- 32 bit EAST expansion slot
- 51/4" drive bay for second IDE hard disc or ATAPI CD-ROM drive

Internal Mass Storage

- IDE hard disc drive (425MByte standard, greater capacities available)
- 2 MByte 31/2" floppy disc drive
- ATAPI (IDE) CD-ROM option

I/O Ports and Interfaces

- RS 232 serial port, 9-pin D-type
- Parallel Printer port, 25-pin D-type
- PS2 interfaces for both keyboard and 3 button mouse
- Monitor output via a standard 15 way high density D-type
- Internal video Genlock port

Physical

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

Electrical

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

Standards Compliance

- CE marked and certified to:

EN60950 (electrical safety)
EN55022 class B (EMC conducted and radiated)
EN50082-1 (EMC susceptibility)

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