RISC PC

- Cost effective, efficient 32-bit ARM based Architecture

- Modular construction (multi-slice expansion)

- Multiple Homo/Heterogeneous processor support

- Available with ARM 610, 710, 810* and StrongARM* processors

- 486/5x86 mode with low cost, high performance

- Capable of discless operation

- VRAM support

- ROM based operating system with soft loadable extensions

- Comprehensive hardware peripheral support:

  — IDE hard discs

  — ATAPI CD ROM

  — 2MByte Floppy drive

  — Expansion slots providing multiple options including ATM/Ethernet, SCSI and MPEG capabilities

- Wide range of software support

- 24-bit colour delivering 16 million colours

- 1280 x 1024 resolution with photo realistic colour palette

- Integrated 16-bit digital sound system, supporting eight independent stereo sound channels

- Available as:

  — Standard product "ex stock"

  — Licensable design

  — Sub-component Assembly

  — Custom Design Variants

* in development

Part of the Acorn Group.

Technical Overview

Range of 32-bit ARM RISC Processors
- ARM610 @ 33MHz, ARM710 @ 40MHz, ARM810* and StrongARM* (*in development)
- Openbus architecture supporting 486/5x86 second processor
- IOMD custom I/O and memory controller ASIC
- VIDC20 custom Video Controller ASIC

Memory
- 2 x SIMM expansion sockets support 2 - 256MByte DRAM
- 1 x vertical SIMM expansion socket supports 1 - 2MByte VRAM
- 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:
  - 1600 x 600 at 16 BPP (32K colours, pixel doubled) 56Hz
  - 1280 x 1024 at 8 BPP (256 colours) 60Hz
  - 1024 x 768 at 16 BPP (32K colours) 75Hz
  - 800 x 600 at 24 BPP (16M colours) 60 Hz
  - 640 x 480 at 24 BPP (16M colours) 75 Hz

Expansion
- Two 32-bit EASI expansion slots (per expansion slice, up to a maximum of 16 slots in total)
- Dedicated network card expansion slot
- 5¼" drive bay for second IDE hard disc or ATAPI CD-ROM drive

Internal Mass Storage
- IDE hard disc drive (425 - 850MByte standard, greater capacities available)
- 2 MByte 3½" 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 Quadrature mouse
- Monitor output via a standard 15 way high density D-type
- Internal video Genlock port
- Stereo audio output 3.5mm stereo jack socket

Physical
- Dimensions: width 355mm, depth 383mm, height (single slice) 117mm, extra slice 182mm. Weight: approx 3.75kg
- 103 key PS2-style keyboard with 3 button PS2 mouse

Electrical
- Integral 70W (single slice) / 103W (double slice) 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)