

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

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)

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