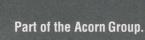## STORK

- Compact portable RISC based sub-notebook computer

- Available with 10.4" SVGA TFT LCD screen or 9.5" monochrome 16 greyscale LCD

- PCMCIA Type 1, 2 or 3 Slot

- Inbuilt Trackerball

- Freeze Mode standby operation

- 32MHz ARM 7500 based system

- Low power battery system

- External Floppy drive

- Optional docking station

- Inbuilt 16-bit digital stereo sound

- Comprehensive application software range available

- Available in sample format

  – Licensable design

  – Production (subject to lead times)

  – Sub assembly format

  – Custom Design Variant

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 10, MMU and video subsystems

Memory
- 2 x SOD1MM expansion sockets supporting up to 128MByte per socket.
- 4MByte page mode ROM
- 240Byte battery backed CMOS SRAM
- Additional memory expansion SRAM / FlashRAM up to 64MByte via PCMCIA card socket

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

System Software
- R1SC OS 3.6 ROM based operating system capable of supporting soft-loadable extensions
- Freeze Mode, enabling the machine to be suspended in any mode of operation and return to the same state instantly up to five days later (assumes fully charged NiCd battery) without rebooting.

Audio
- CD quality 16 bit stereo digital sound system
- 3.5 mm stereo jack socket capable of driving 32 Ohm headphones or for use as a line output, plus internal speaker

Video
- LCD Screens, all with 8 bit software controlled brightness and contrast adjustment: 9.5"
  - 16 Greyscale Monochrome 640 x 480 STN LCD
  - 10.4" 256K Colour VGA 640 x 480 TFT LCD
  - 10.4" 256K Colour SVGA 800 x 600 TFT LCD
- Wide variety of external monitor resolutions:
  - 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
- PCMC1A Type 1, 2, 3 slot supporting 'hot insertion' and XIP (execute-in-place)
- Choice of PCMCIA cards including fax/modem, network, SCSI or memory expansion
- External pocket-sized 2 MByte 3½" floppy disc drive via parallel port
- Option for IRDA and RC5 infra-red capability
- Optional docking station providing parallel, serial and floppy drive ports, plus external monitor, keyboard, mouse and power input.

Internal Mass Storage
- 2½" IDE hard disc drive (425MByte standard, greater capacities available)

I/O Ports and Interfaces
- RS 232 serial port, 9-pin D-type
- Parallel Printer / floppy disc drive port, 25-pin D-type
- DC in 18Vdc 2-pin concentric
- Stereo audio output via 3.5mm stereo jack socket
- Expansion port / docking interface via 50-way miniature connector

Physical
- Dimensions: width 266mm, depth 192mm, height 36mm (monochrome), 42mm (colour). Weight: approx 1.8kg.
- Integral 77 key keyboard with numeric keypad overlay and integral palm rest
- In-built trackerball with three buttons

Electrical
- External switched mode PSU / battery charger, auto-ranging from 110V to 240VAC, 50 to 60 Hz (output 18Vdc 1.2A)
- Battery life in continuous use: NiCd (1400mAh), up to 21 hours. NiMH (1800mAh), up to 3¼ hours.