

SANDY

PRESENTS

FUTURA

Tony Tebby (Qjump) design brilliance combined with Sandy high technology manufacturing expertise has resulted in an entirely new concept for personal computers - the FUTURA.

Design objectives were to produce a fast, easy to work with system which would invite expansion by providing designed-in interfacing rather than the added on afterthought arrangements usually found in microcomputers. Futura packs all this onto a high density circuit board which measures just 215 X 225 mm.

The system is based on a full Motorola 68000 with modes which give complete compatibility with all QL software and execution times between 3 and 10 times faster. Networking to a QL using the advanced file server system enables both machines to exchange data and programs even accessing the QL microdrives from FUTURA. Expansion facilities provide for compatibility with other 68000 based computers and an MSDOS emulator using an INTEL 80186 second processor is being developed.

CASING & KEYBOARD

A compact metal casing uses a stylish moulded front panel to house the main components:

- A silent high grade switch-mode power supply
- Futura main circuit board
- Display processor and ram expansion boards
- Up to two 3.5" floppy disk drives
- One 3.5" hard disk
- Up to two double Eurocards or QL expansion cards

A separate slimline keyboard designed especially for the Futura attaches with a coiled lead and provides high quality real action keys in an 89 key layout with numeric pad, separate cursor controls, 10 function keys and a hot key.

SYSTEM ARCHITECTURE

To achieve the maximum expansion capabilities a dual bus architecture is employed. The main processor and peripheral devices of all types use the processor bus which is also extended to full VME standard. RAM access is controlled by the display processor on a separate bus resulting in unrivalled speed and flexibility in configuring the system for any application.

Primary expansion uses up to seven plug-in ROM/PERIPHERAL modules which use reduced bus 48 pin connectors providing up to 256K Bytes of address space each. Direct addressing and default handshaking for simple ROMs are supported by facilities to generate additional wait states and single vectored interrupts for complex devices.

General expansion is through an 80 way connector directly on the processor bus allowing a VME bus rack, QL peripheral rack or any custom designed expansion to be reliably interfaced.

Processor expansion for applications such as second processors, specialist graphics controllers and peripherals requiring direct memory access use a combination of ROMPer connectors and RAM bus access.

The display processor board houses the plug-in ram modules which are available in 512K Bytes or 2M Bytes versions up to a total of 8M Bytes RAM. The standard display driver produces 640 pixel mode in 16 colours with an optional fast ram pallet-mapping module generating up to 65536 colour options for super graphics.

HARDWARE

Processor : Motorola MC68000 [MC68010 option]
Clock rate: 8 MHz
System ROM: 128K Bytes exchangeable module
RAM : 512K Bytes to 8M Bytes by plug in module
Display : Multi-mode plus QL screen compatibility
Pallet mapping option plus video editing
for titling and graphic screen generation
Ports : MIDI out [MIDI in option]
Mouse controller
Parallel port for printers and peripherals
Two serial ports to BS58 with 5pin DIN sockets
with full duplex operation
Independent baud rate settings
Network ports - QL compatible
Expansion : Full processor bus connector
Two internal ROMPer/RAM bus connectors
Two internal ROMPer connectors
Two external ROMPer connectors
Sound : Stereo sound generation with loudspeaker
Clock : Battery backed real time clock
Disks : Up to two 3.5" 80 track floppy drives
20 or 40 M Bytes 3.5" hard disk

SYSTEM SOFTWARE

OPERATING SYSTEM:

Multi-mode operating system with QDOS compatible mode
Extended real window handling
Pull-down and static menus
Hot key operation
Fully integrated pointer environment for mouse operation
Multitasking job manager
Spooler
Full error reporting

BASIC LANGUAGE:

Enhanced programming language compatible with Superbasic
All Supertoolkit facilities built in
Faster execution

BASIC COMPILER:

Liberator basic full floating point compiler

PRIORITY ORDER RESERVATION

SANDY FUTURA

DUE TO THE TREMENDOUS DEMAND FOR THIS
SOPHISTICATED COMPUTER SYSTEM, ORDERS WILL
BE DESPATCHED IN STRICT SEQUENCE

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YOUR ORDER ACKNOWLEDGEMENT WILL CONFIRM
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Title (Mr./Mrs./Miss)..... Christian Name.....

Surname.....

Address.....

Town.....

County..... Postcode.....

Country.....

Enclosed is Cheque No. Value £.....

Please Debit my Access/Mastercard/Visa

Number

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Signed..... Date.....

FOR OFFICE USE ONLY

Date.....

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Des. Wk.

Initials.....

Ack.

Des. No.

PLEASE TICK BOXES

Model Specification

PROCESSOR	68000	<input type="checkbox"/>	68010	<input type="checkbox"/>
RAM	512K	<input type="checkbox"/>	1 MBYTE	<input type="checkbox"/>
3½ DISK	SINGLE	<input type="checkbox"/>	DUAL	<input type="checkbox"/>
MONITOR	MONO	<input type="checkbox"/>	COLOUR	<input type="checkbox"/>
3½ 20 MBYTE WINCHESTER DISK		<input type="checkbox"/>		

PRICE GUIDE :

512K RAM SINGLE DRIVE	£500 + VAT
DUAL	575
512K RAM UPGRADE TO 1 MBYTE	40
68010 OPTION	40

SPECIFICATION NOW INCLUDES :

EXTERNAL DISK PORT FOR 5.25"/3.5" DRIVES

'n' CHANNEL SOUND BUILT IN

FULL MIDI IN & OUT WITH OPTO-ISOLATION