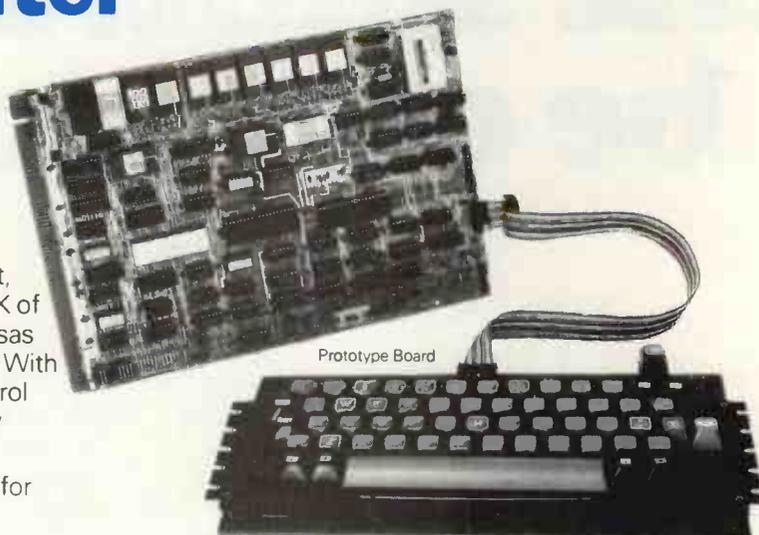


NASCOM-2

Our nomination for the best microcomputer board in the world.

In about the same area as this advertisement, we have designed a microcomputer with 20K of addressable memory ON-BOARD. With Kansas City standard cassette interface ON-BOARD. With TV/monitor interface ON-BOARD. With control decoding ON-BOARD. With all bus lines fully buffered ON-BOARD.

We call this microcomputer **Nascom-2**. And for under £300 this is what it has:



Microprocessor

Z80A. 8 bit CPU. This will run at 4 MHz but is selectable between 1/2/4 MHz.

This CPU has now been generally accepted as the most powerful, 8 bit processor on the market.

The software library for the Z80, with its base around the 8080, has rapidly expanded with the increasing use of its more powerful instruction set.

Hardware

12" x 8" Card

All bus lines are to the Nasbus specification.

All bus lines are fully buffered.

PSU +12v, +5v, -12v, -5v.

Memory

On-board, addressable memory:—

2K Monitor — Nas-Sys I (2K ROM)

1K Video RAM (MK4118)

1K Work space/User RAM (MK4118)

8K Microsoft Basic (MK36000 ROM)

8K Static RAM/2708 EPROM

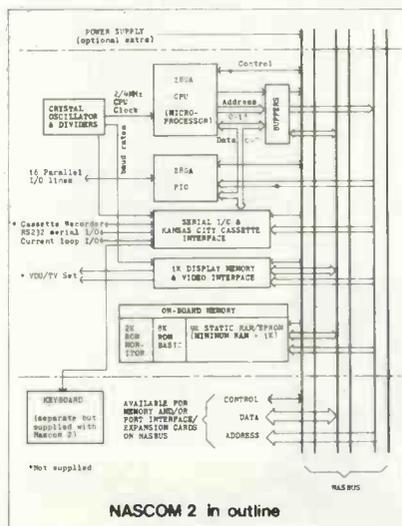
INTERFACE

Keyboard

New expanded 57 key Licon solid state keyboard especially built for Nascom. Uses standard Nascom, monitor controlled, decoding.

T.V.

The 1v peak to peak video signal can drive a monitor directly and is also fed to the on-board modulator to drive the domestic TV.



I/O

On-board UART (Int. 6402) which provides serial handling for the on-board cassette interface or the RS232/20mA teletype interface.

The cassette interface is Kansas City standard at either 300 or 1200 baud. This is a link option on the NASCOM-2

The RS232 and 20mA loop connector will interface directly into any standard teletype.

The input and output sides of the UART are independently switchable between any of

the options — i.e. it is possible to use input on the cassette and output on the printer.

PIO

There is also a totally uncommitted Parallel I/O (MK3881) giving 16, programmable, I/O lines. These are addressable as 2 x 8 bit ports with complete handshake controls.

On-board Decoding

The NASCOM-2 makes extensive use of ROMs for on-board control decoding. This reduces the chip count and allows easy changes for specialised industrial use of the board.

Link options are on-board to allow the Reset control to be reassigned to an address other than zero.

Character Generators

The 1K video RAM drives a 2K ROM character generator providing the standard ASCII character set with some additions, 128 characters in all. There is also a socket for an optional graphics ROM on-board.

The PCB is, of course, of industrial standard, through hole plated, masked and screen printed.

Documentation

Full construction article is provided for those who buy a kit and an extensive software manual is provided for the monitor and Basic.

We think no other board has quite so much on it for £295 (plus VAT).



Nascom Microcomputers

121 High Street Berkhamsted Herts.

(04427) 74343