

interface components

EXPAND YOUR NASCOM WITH OUR NASBUS COMPATIBLE EPROM BOARD

ONLY £55+VAT

Available
September

**NEWS FLASH
TO ALL NASCOM
OWNERS...**

Every Nascom 1 and 2 user can now expand their machine with up to 32K of EPROM.

Our NASBUS compatible EPROM board has 16 sockets to take 2708s or 2716s, organised in four banks of four. And as long as each bank has the same EPROMs, you can mix the banks between 2708 and 2716. Furthermore, each bank can be decoded to start at any 4K address boundary.

Just think, you can plug in the NAS-PEN text editor, ZEAP assembler, NAS-DIS disassembler and NAS-DEBUG, and still have 6 spare sockets.

The board also has a 24 pin, 8K ROM socket addressable on any 4K boundary. Ideal for Nascom 1 owners to add the 8K BASIC to their system.

For the benefit of Nascom 2 users, we have fitted the board with a wait-state option. When selected, this facility is automatically activated while the board is being addressed and allows you to use your microprocessor at 4MHz with slower EPROMs.

We could have stopped there, but we decided to make our EPROM board the most comprehensive available. Which is why our board can support the Nascom Page Mode Scheme.

The board can be switch selected to any one of four pages enabling it to be used in conjunction with up to three of the new Nascom RAM boards of any memory capacity.

Like Nascom's own expansion boards the interface Components EPROM board is an 8" x 8" silk screened, solder resist board manufactured to the full NASBUS specification and therefore totally compatible with other NASBUS boards.

NASCOM IMP PLAIN PAPER PRINTER

The Nascom IMP (Impact Matrix Printer) features:
 • 60 lines per minute • 80 characters per line •
 Bi-directional printing • 10 line print buffer • Automatic
 CR/LF • 96 characters ASCII set (includes upper/lower
 case, \$, £) • Accepts 8 1/2" paper (pressure feed)
 • Accepts 9 1/2" paper (tractor feed)
 • Tractor/pressure feed • Baud rate from
 110 to 9600 • External signal for optional
 synchronisation of baud rate
 • Serial RS232 interface
 • Optional TRS80 interface
 • Ribbon cartridge £9.90+VAT
 • 2000 sheets Fan Fold paper
 £18.00+VAT.

Nascom Imp
£325

Plus VAT + P&P £2.99

NASCOM HARDWARE

Motherboard £5.50 + VAT + 50p P&P
 Mini Motherboard £2.90 + VAT + 50p P&P
 3 amp PSU £29.50 + VAT + £1.50 P&P
 VERO DIP board £12.50 + VAT + 50p P&P
 FRAME £32.50 + VAT + £2.00 P&P
 8 Amp PSU Built £105.00 + VAT + £2.75 P&P
 Econographics £30.00 + VAT + 50p P&P
 I/O Board £45.00 + VAT + 50p P&P
 Buffer Board £32.50 + VAT + 50p P&P
 NEW
 NAS-BUS EPROM Board £55.00 + VAT + 50p P&P

NASCOM FIRMWARE IN EPROM

NASPEN £30.00 + VAT + 30p P&P
 ZEAP 2 £50.00 + VAT + 30p P&P
 NAS-SYS 1 £25.00 + VAT + 30p P&P
 NAS-DIS £37.50 + VAT + 30p P&P
 NAS-DEBUG £15.00 + VAT + 30p P&P
 NAS-SYS 3 £40.00 + VAT + 30p P&P

NASCOM SOFTWARE ON TAPE

8K BASIC £15.00 + VAT
 ZEAP 2 £30.00 + VAT + 50p P&P

NASCOM SOFTWARE

CPU card can accommodate either 8K of static memory or 8 2708 EPROMS. This allows for inclusion of standard firmware on board.

ASSEMBLER Version 2.0 of ZEAP (Z80 Editor Assembler Package) offers in 4K features found normally only in far larger programs. A comprehensive line editor is provided in addition to an assembler operating in standard Z80 mnemonics. Direct assembly to memory allows immediate program execution. ZEAP can take advantage of special features of NAS-SYS, which was itself developed on this assembler. Supplied on tape at £30.00 plus VAT or in 4 x 2708 EPROMs at £50.00 plus VAT.

DISASSEMBLER The NAS-DIS 3K disassembler reverses the effect of assemblers such as ZEAP by turning machine code into assembler program, automatically labelling and cross-referencing to produce a complete program listing, saving hours of tedious hand disassembly when program analysis is required. Supplied in 3 x 2708 EPROMs at £37.50 plus VAT.

NAS-SYS 3. THE NEW OPERATING SYSTEM FOR NASCOM 2. SUPPLIED IN 1 x 2716 EPROM

NAS-SYS 3 is the latest in the current series of Nascom monitors and includes features such as adjustable keyboard repeat and cursor speed, full interrupt handling and a number of powerful routines and commands making this probably the most comprehensive 2K monitor ever written for a microcomputer.

£40 + VAT

RAMBOARDS

SERIES B ram board gives user option of 16K, 32K or 48K of DYNAMIC RAM. These boards can be arranged in page mode to allow use of up to 4 with NASCOM 2. Boards are fully buffered but PAGE MODE facility is an optional extra. This card can be used at 4MHz without wait state.



NASCOM-2

MEMORY • 8K Microsoft BASIC • 2K NAS-SYS 1 monitor • 1K Video RAM • 1K Workspace/User RAM • On-board 8 sockets provided for memory expansion using standard 24-pin devices: 2708 EPROMS and MK4118 static RAM. MICROPROCESSOR • Z80A which will run at 4MHz but is selectable between 2/4 MHz. HARDWARE • Industrial standard 12" x 8" PCB, through hole plated, masked and screen printed. All bus lines are fully buffered on-board. INTERFACES • Licon 57 key solid state keyboard (included) • Monitor/domestic TV interface • Kansas City cassette interface (300/1200 baud) or RS232/20mA teletype interface.

The Nascom 2 kit is supplied complete with construction article and extensive software manual for the monitor and BASIC.

EXPANSION OPTIONS
 • MK4118 £10 + VAT each;
 16K RAM Board £140 + VAT;
 32K RAM Board £185 + VAT;
 48K RAM Board £230 + VAT;

Nascom 2 Kit Price

£225

Plus VAT
 + P&P £2.00

NASCOM-1

12" x 8" PCB carrying 5LSI MOS packages, 16 1K MOS memory packages and 33 TTL packages. There is on-board interface for UHF or unmodulated video and cassette or teletype. The 4K memory block is assigned to the operating system and video display leaving a 1K user RAM. The MPU is

the standard Z80 which is capable of executing 158 instructions including all 8080 code. Built price £140 + VAT.

Nascom-1 Kit Price

£125

Plus VAT
 + P&P £1.50

VISIT OUR NEW SHOP

Just 200 yards approx. Amersham station. We stock PET at discount prices, Sharp MZ-80K, and extensive range of electronic components including ICs, discrete semiconductors, capacitors, resistors, VERO products, OK Tools and accessories for both professional and amateur constructors.

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TELEPHONE: 02403 22307. TELEX 837788