

MTX500

The All-Purpose
Computer



MEMOTECH

Technical Specification

PROCESSOR

Z80A running at 4MHz

STANDARD RAM

32k user RAM, 16k dedicated video RAM

MAX RAM

512k

ROM SIZE

16k

ROM CONTENTS

MTX Basic

Z80 Assembler/Disassembler

Z80A Register, Memory and Program display + manipulation routines.

Terminal Emulator

ROM FACILITIES

Paging to 72k as standard

Cartridge facilities

ROM LANGUAGES OTHER THAN BASIC

Noddy, Logo, Pascal as an add-on ROM pack
(Forth soon)

KEYBOARD

79 typewriter style moving keys

KEYBOARD FACILITIES

Cursor control plus sophisticated editing keys

Auto Repeat

Numeric Pad

2 Reset Keys

8 Function Keys

CHARACTER SET

Upper Case, Lower Case, Graphics and User Definable characters, plus optional Foreign language character sets

DISPLAY

Colour TV and Video Monitor – 40 column display as standard with optional 80 column expansion

DISPLAY FACILITIES

Full Screen Handling

8 Virtual Screens

Text Formats – 48 × 24 characters
32 × 24 when mixed with graphics

Graphics Resolution – 256 × 192 pixels, (all 16 colours are available)

SUITABLE PRINTERS

Centronics

RS232 – available as an expansion

INPUT/OUTPUT

RS232 – 2 ports available (as an expansion)

Node Systems

Uncommitted parallel input/output port

2 Joystick Ports

TV Output with 3 Voice sound from TV speaker

Hifi Output for 3 Voice sound

Real Time Clock

OPERATING SYSTEM

MOS

GRAPHICS FACILITIES

Logo Commands

Sprites

DISK OPTIONS

5¼" Floppy

8" Floppy

Winchester Hard Discs

The Disk Operating System is CP/M

The All-Purpose Computer

The MTX500 is a new departure in micro-computer technology. Whether your needs as a user are for personal programming, games playing, scientific or process control, educational or business use the MTX500 is already capable or very easily adaptable to almost every application. Glance through the standard features below – you'll see what we mean.

SOFTWARE

The MTX500's 16k ROM contains several languages and routines which enable the novice or the experienced programmer to make full use of the machine. Standard languages are MTX BASIC, LOGO AND NODDY. ROM routines include an ASSEMBLER/DISASSEMBLER with screen display of the Z80 CPU registers, memory and program, which can be manipulated from the keyboard. Machine code programs can be stepped through one instruction at a time, and easily called from within BASIC programs. A further feature is the Virtual Screen facility which enables the programmer to define sections of the screen to work independently whilst maintaining all full screen facilities. Pascal is available as an add-on ROM pack.

HARDWARE

As standard – 32k of user RAM expandable to 512k plus 16k of dedicated video RAM. Sixteen colours, 40 column text, 256 × 192 high resolution graphics with all sixteen colours available, and easily moveable user defined

SOFTWARE AVAILABLE FOR THE MTX500



TOADO



KILOPEDE



SUPER MINEFIELD



CHESS



DRAUGHTS

79 moving key keyboard makes data entry fast and efficient

THE MTX500 Rear Panel

JOYSTICK PORTS

CENTRONICS INTERFACE

POWER INPUT

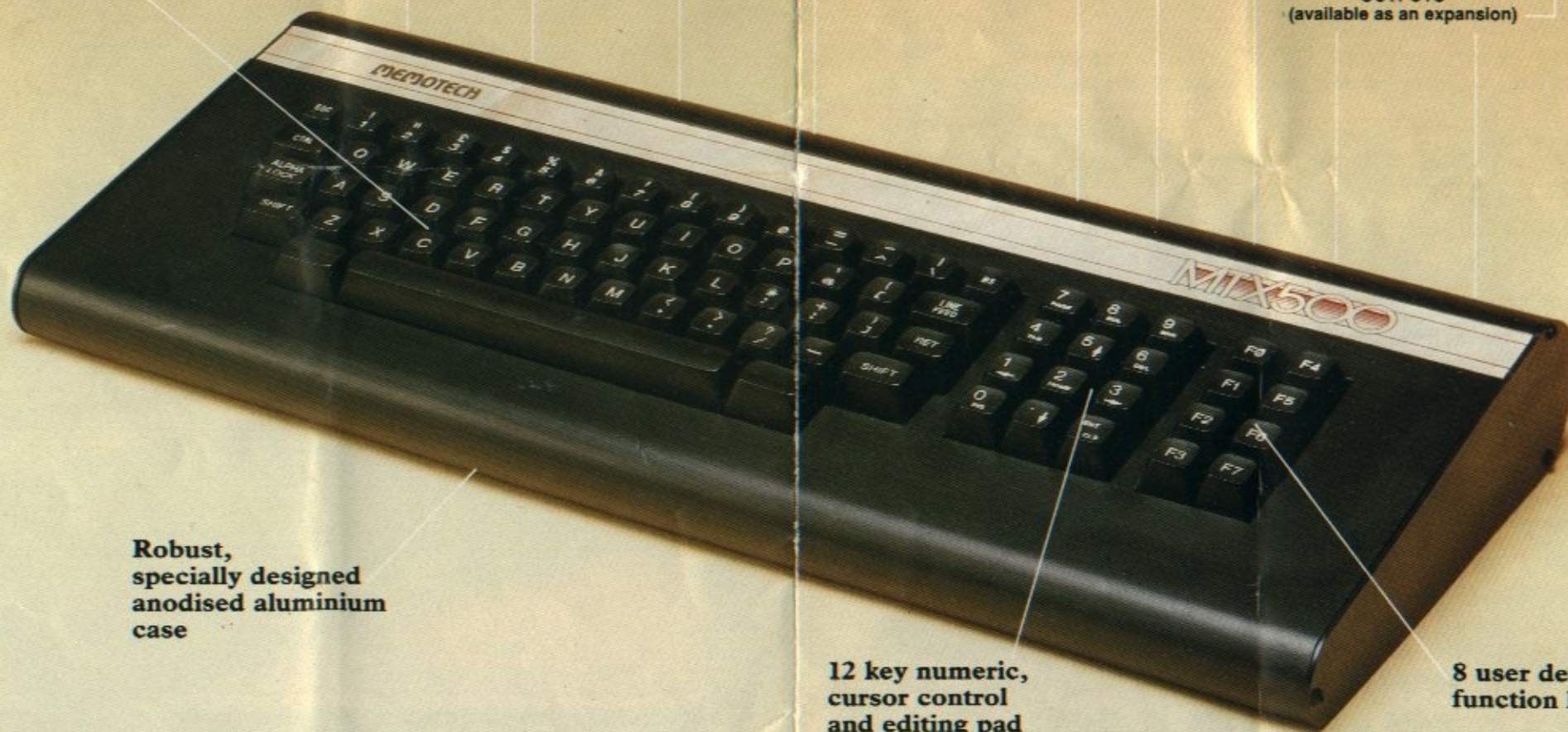
VIDEO MONITOR OUTPUT

CASSETTE PORTS

TV OUTPUT

HI-FI OUTPUT

TWO RS232 INTERFACE
OUTPUTS
(available as an expansion)



Robust, specially designed anodised aluminium case

12 key numeric, cursor control and editing pad

8 user defineable function keys

graphics (Sprites) combine to make effective screen displays quick and simple to achieve. Standard outputs are centronics printer port, two joystick ports, an uncommitted I/O port, 2400 Baud Cassette port, separate TV and Video Monitor ports, 3 voice sound with hifi output plus a dedicated games cartridge port. Other standard features include the Z80A processor running at 4MHz, real time clock, full moving key keyboard with 79 keys including eight function keys and separate numeric pad. Optional expansions include 80 column video board, twin RS232 interfaces, 5¼ and 8 inch floppy disc interfaces to run CP/M.

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Software for the MTX500



Software
BY
CONTINENTAL

WHAT SOFTWARE IS AVAILABLE FOR THE MTX500?



So that full use can be made of the MTX500, we have arranged for a wide choice of software to be available. We've appointed Continental Software Limited as our main suppliers, although we will be pleased to review material from anyone with programming flair, on any subject from games, through education to business applications. Currently, the following tapes are in production, although more are being added to the list all the time.

ARCADE STYLE GAMES

BLOBBO

A fast maze chase with untold perils and hazards.

TOADO

Get the toad back to his nest – but don't get run over or drown on the way.

SUPER MINEFIELD

You may have seen other Minefield games but ours has tanks that lay invisible mines, and spiders that are very tricky to avoid.

CONTINENTAL INVADERS

Classic arcade action, with all the features that make this game so popular.

KILOPEDE

This one is very fast – its not easy to get past level two.

RADAR/SONAR

Eliminate submarines with a combination of radar screen and sonar, very realistic.

FLIGHT SIMULATOR

Take off, navigate and land your high powered light aircraft. All the features of true flight.

ALSO AVAILABLE:

RESCUE, BEAVER, CONTINENTAL RAIDERS, PILE UP, SIGNAL MAN and many more.

EDUCATION PROGRAMS

MATHS 1

PHYSICS 1

The first two programs in a series of specially written software designed to teach at the pace and level best suited to the user.

BUSINESS PROGRAMS

MTXCALC

Sophisticated and powerful, the professional spreadsheet program.

MTX WORD PROCESSOR

All necessary features are included to give a powerful business tool.

PROJECT PLANNER

Speaks for itself, and helps you achieve deadlines efficiently and effectively.

COMPLETE ACCOUNTING PACKAGE

Sales and Purchase Ledgers, stock control, payroll – the complete business system.

MTX500

STRATEGY BOARD GAMES CHESS, BACKGAMMON, OTHELLO, DRAUGHTS.
