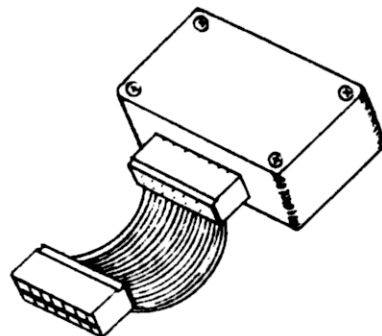


NEW

U3000

MEMORY THAT NEVER NEEDS PROTECTION



INTRODUCING THE U3000 MEMORY EXPANSION UNIT. THE U3000 IS A TRS-80* PERIPHERAL THAT PROVIDES 1024 BYTES OF RAM IN A UNASSIGNED AREA OF MEMORY (3000-33FF HEX). THE UNIT MAY BE PLUGGED DIRECTLY INTO THE CPU OR EXPANSION INTERFACE AND INSTALLATION DOES NOT VOID YOUR WARRANTY.

AT LAST, AN EFFECTIVE WAY TO SOLVE MEMORY ALLOCATION PROBLEMS IMPOSED WHEN COMBINING PACKAGED SOFTWARE WITH UTILITY SUPPORT ROUTINES.

MOST PROGRAMS WRITTEN FOR THE TRS-80 ASSUME FREE USE OF AVAILABLE RAM. MACHINE LANGUAGE PROGRAMS ESPECIALLY, DO NOT MAKE PROVISIONS FOR PROTECTING MEMORY INTENDED FOR UTILITY SOFTWARE. EVEN SOME BASIC PROGRAMS HAVE MACHINE CODE ROUTINES THAT LOAD INTO HIGH MEMORY AND CANCELS THE EFFECTIVENESS OF THE "MEMORY SIZE" FEATURE OF LEVEL II BASIC.

WHO NEEDS UTILITY SOFTWARE?? ANYONE WHO WANTS TO ADD NUMEROUS SYSTEM FEATURES TO REDUCE PROGRAM DEVELOPMENT TIME... ANYONE WHO WANTS TO OVERCOME HARDWARE PROBLEMS WITHOUT MAKING HARDWARE MODIFICATIONS... ANYONE WHO WANTS TO ADD FORMS CONTROL FEATURES TO THEIR LINEPRINTER WITHOUT TOUCHING A SCREWDRIVER... ANYONE WHO PROGRAMS IN MACHINE CODE... ANYONE WHO WANTS TO ADD AUDIO RESPONSE AND LIGHT PEN CONTROL FEATURES... ANYONE WHO HAS A SOFTWARE DRIVEN INTERFACE FOR THEIR LINE PRINTER... ETC.

A LOT CAN BE ACCOMPLISHED WITH SHORT MACHINE LANGUAGE ROUTINES THAT CHANGE THE PERSONALITY OF YOUR TRS-80* COMPUTER. THE AMOUNT OF MEMORY REQUIRED IS SMALL BUT IT MUST BE MAPPED INTO A WELL PROTECTED AREA. THE U3000 PROVIDES THAT PROTECTION.

PROGRAMS WRITTEN TO RUN IN THE U3000???

RS232 DRIVER ROUTINES... AUDIO GENERATION SOFTWARE... A CASSETTE LEVEL METERING PROGRAM... KEYBOARD DEBOUNCE ROUTINES... LIGHT PEN SCANNING AND CONTROL ROUTINES... AUTO KEYING AND QUICK EDITING SUPPORT PROGRAMS... REAL-TIME CLOCK SERVICE ROUTINES... BASIC FILE RENUMBERING AND APPENDING ROUTINES... SCREEN PRINT DRIVERS... LINE PRINT SPOOLERS... MACHINE LANGUAGE MONITORS... LINE-PRINT PAGE NUMBERING AND FORMS CONTROL UTILITIES... LOWER-CASE SUPPORT SOFTWARE... AND MORE.

WHAT DOES THE MEMORY EXPANSION PACKAGE INCLUDE? THE U3000 IS SHIPPED COMPLETELY ASSEMBLED AND TESTED WITH ITS OWN POWER SUPPLY AND BUS CABLE. AS A BONUS FEATURE, TWO UTILITY PROGRAMS ARE PROVIDED AT NO EXTRA COST TO DEMONSTRATE THE USEFULNESS AND POTENTIAL OF THE U3000.

THE FIRST PROGRAM IS A POWERFUL MACHINE LANGUAGE MONITOR THAT IS ENABLED AT THE TOUCH OF A KEY WITHOUT RELOADING OR DISTURBING THE MAIN OPERATING PROGRAM. IT CAN BE ACCESSED WHILE RUNNING IN BASIC, DOS, DPENCIL EDTASM, ETC.

THE SECOND PROGRAM IS A UTILITY PACK THAT INCLUDES A SCREEN PRINT DRIVER, CASSETTE LEVEL METERING PROGRAM, CALIBRATED KEYBOARD DEBOUNCE AND LINE PRINTER FACILITIES TO PROVIDE LINE AND PAGE LENGTH CONTROL, PAGE NUMBERING, INDENTED CONTINUATION LINES, AND SMART LINE TERMINATION.

THE U3000 WILL DEFINITELY ADD NEW DIMENSIONS TO YOUR TRS-80 COMPUTING SYSTEM. ORDER YOURS TODAY. SEE REVERSE SIDE FOR SPECIFICATIONS, PRICE AND ORDERING INFORMATION.

TRS-80 IS A TRADEMARK OF THE TANDY CORPORATION.

U3000 MEMORY EXPANSION UNIT

- + PLUGS DIRECTLY INTO EXPANSION INTERFACE OR CPU.
- + NO MODIFICATIONS REQUIRED.
- + ADDS 1024 BYTES OF MEMORY AT UNASSIGNED LOCATION (3000H).
- + MEMORY PROTECTION NOT REQUIRED.
- + NOTHING EXTRA TO BUY - COMPLETE WITH EXTERNAL POWER SUPPLY AND CONNECTING CABLE.
- + WORKS WITH LEVEL II AND ALL DOS SYSTEMS (4,16,32,OR 48K).
- + ALL FUNCTIONS ARE IN MACHINE LANGUAGE.
- + SIZE 1-1/2 X 3 X 4

U3000 MEMORY EXPANSION UNIT ASSEMBLED AND READY TO RUN..... \$ 99.00

*** SOFTWARE ***

- + ALL UTILITY SOFTWARE (BELOW) ARE KEYBOARD CONTROLLED AND LOADED INTO 3000H TO 33FFH.
- + PUT IN YOUR OWN UTILITY PROGRAMS.
- + NO KNOWLEDGE OF MACHINE LANGUAGE REQUIRED

** U3000 UTILITY 1 **

- + LINE PRINTER CONTROL PROGRAM
 - 1- SELECTABLE AUTO LINE FEED
 - 2- PAGE LENGTH CONTROL
 - 3- LINE LENGTH CONTROL
 - 4- AUTOMATIC PAGE NUMBERING
- + SCREEN PRINTING PROGRAM
 - 1- ALL CHARACTERS SENT TO SCREEN ALSO SENT TO LINE PRINTER SIMULTANEOUSLY.
- + CASSETTE LEVEL METER PROGRAM
 - 1- SCREEN DISPLAY OF CASSETTE VOLUME LEVEL
 - 2- USER CAN EASILY ADJUST VOLUME CONTROL, ASSURING PROPER LOADING OF PROGRAM TAPES THE FIRST TIME.
- + KEYBOARD DEBOUNCE PROGRAM
 - 1- SETS KEY-DEBOUNCE AUTOMATICALLY.
 - 2- ADJUSTABLE BY USER FROM 0 TO 255MS

*** PLUS MANY OTHER FEATURES ***

** ALL ABOVE SOFTWARE UTILITY PROGRAMS ARE LOADED AT ONE TIME**
ALL ARE USER KEYBOARD CONTROLLED

U3000 UTILITY 1..... \$ 12.95

** MICRO MONITOR UTILITY **

- 1- DISPLAYS MEMORY TO SCREEN OR PRINTER (HEX OR ASCII)
- 2- EDIT MEMORY BYTES OR BLOCKS
- 3- COMPARE MEMORY BLOCKS
- 4- SEARCH MEMORY BLOCK FOR BYTE
- 5- PUNCH A SYSTEM TAPE.
- 6- KEYBOARD CONTROL PLUS MANY OTHER FEATURES

MICRO MONITOR UTILITY..... \$ 12.95

A TOTAL VALUE OF..... \$ 125.90

SPECIAL INTRODUCTORY OFFER

SHIPPED COMPLETE WITH DOCUMENTATION AND INSTRUCTIONS INCLUDING SOFTWARE ON CASSETTE TAPE..FOR LIMITED TIME ONLY..... \$ 99.00

... IMMEDIATE DELIVERY

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PHONE (313)624-7303
MASTER CHARGE OR VISA ACCEPTED