

# TRS-80™ MODEL III

48K \$1039



# APPLE - II +

48K \$1119



# ATARI 800

48K \$1069



## PRINTERS

MICROLINE-80	\$499.00
MICROLINE-82	\$669.00
MICROLINE-83	\$999.00
EPSON MX-70	\$449.00
EPSON MX-80	\$519.00
CENTRONICS 737	\$769.00
VISTA V300	\$1795.00

**TSE-HARDSIDE**  
6 South St. Milford, NH 03055 (603)673-5144  
TOLL FREE OUT-OF-STATE 1-800-258-1790

TERMS: Prices and specifications are subject to change. HARDSIDE accepts VISA & MASTERCARD. Certified checks and Money Orders; Personal checks accepted (takes 3 weeks to clear). HARDSIDE pays all shipping charges (within 48 states) on all PREPAID orders OVER \$100.00. On all orders over \$100 a \$2.50 handling charge must be added. COD orders accepted (orders over \$250 require 25% deposit) there is a \$5.00 handling charge. UPS, Blue Label, Air Freight available at extra cost.

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## numbers

### NUMBER CONVERTING PROGRAM

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5 REM * COPYRIGHT FRED BLECHMAN 1980 *
10 CLS
20 PRINT:PRINT:PRINT:PRINT"          NUMBER CONVERTER PROGRAM"
25 PRINT"          (MAXIMUMS: 65535 DECIMAL, FFFF HEX)"
30 PRINT:PRINT"(1) DECIMAL TO HEX CONVERSION
40 PRINT"(2) HEX TO DECIMAL CONVERSION
50 PRINT:INPUT"WHICH DO YOU WANT, 1 OR 2?":M
60 ON M GOTO100,500
100 CLS:PRINT:PRINT:PRINT"ENTER 0 FOR MENU, BREAK TO EXIT...":PRINT
110 INPUT"WHAT IS THE DECIMAL NUMBER (65535 MAX.)":N
111 IF N>65535 PRINT"ABOVE 65535 LIMIT! TRY AGAIN...":GOTO110
112 IF N=0 GOTO10
115 A=N:X=0
120 A=A-4096
130 IF A<0 THEN A=A+4096:Z=X:GOSUB1000:E=X$:GOTO145
140 X=X+1:GOTO120
145 B=A:X=0
150 B=B-256
160 IF B<0 THEN B=B+256:Z=X:GOSUB1000:F=X$:GOTO175
170 X=X+1:GOTO150
175 C=B:X=0
180 C=C-16
190 IF C<0 THEN C=C+16:Z=X:GOSUB1000:G=X$:GOTO210
200 X=X+1:GOTO180
210 D=C:Z=D:GOSUB1000:H=X$
220 PRINT:PRINT"THE HEXADECIMAL VALUE IS: ":E$:F$:G$:H$
225 PRINT"(IGNORE LEADING ZEROES...)"
230 PRINT:GOTO110
500 CLS:PRINT:PRINT:PRINT"ENTER 0 FOR MENU, BREAK TO EXIT...":PRINT
510 INPUT"WHAT IS THE HEXADECIMAL VALUE (FFFF MAX.)":V$
511 IF V$="0" GOTO10
512 V$=RIGHT$("0000"+V$,4)
520 X$=RIGHT$(V$,1):GOSUB2000:D=Z
530 X$=MID$(V$,3,1):GOSUB2000:C=Z+16
550 X$=MID$(V$,2,1):GOSUB2000:B=Z+256
560 X$=LEFT$(V$,1):GOSUB2000:A=Z+4096
600 PRINT:PRINT"THE DECIMAL NUMBER IS":A+B+C+D
620 PRINT:GOTO510
999 END
1000 IF Z<10 THEN X$=STR$(Z)
1005 IF Z=10 THEN X$="A"
1010 IF Z=11 THEN X$="B"
1020 IF Z=12 THEN X$="C"
1030 IF Z=13 THEN X$="D"
1040 IF Z=14 THEN X$="E"
1050 IF Z=15 THEN X$="F"
1060 RETURN
2000 IF X$="A" THEN Z=VAL(X$)
2005 IF X$="B" THEN Z=11
2010 IF X$="C" THEN Z=12
2020 IF X$="D" THEN Z=13
2030 IF X$="E" THEN Z=14
2040 IF X$="F" THEN Z=15
2050 IF X$="F" THEN Z=15
2060 IF X$="F" PRINT"ERROR!! NO LETTER GREATER THAN F! TRY AGAIN...":GOTO 510
2070 RETURN

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keyboard in 15 to 20 minutes and stored on cassette or disk, it is limited to hex/decimal conversions and to only four hex characters. Several other cassette programs with more flexibility can be obtained from the following sources:

(1) "BASECONV/BAS" converts any number with a base between 2 and 16. No known limit to number size. Excellent, fast, easy to use. \$3.95, postpaid, if payment with order. International Data Services, 340 West 55th St., New York, NY 10019. Phone: 212-757-8046.

(2) "Number/Base Converter" will add, subtract or convert numbers of any base between 2 and 16. No known limit to number size. Very flexible. \$6.95, postpaid. Demi-Software, P.O. Box 570, Lynbrook, NY 11563.

(3) "Programmer's Converter" has three programs: Base Calculator converts numbers with bases 2 through 16 and performs calculations, including fractions; Hexadecimal/Decimal Training not only performs conversions but includes a teaching/testing program;

Number Base Conversions converts decimal, binary, octal and hexadecimal numbers from zero to FFFF, and displays all four values simultaneously. \$9.95 plus \$1 shipping. Instant Software, Peterborough, NH 03458.

(4) "HEX-DEC Converter" provides hexadecimal-to-decimal or decimal-to-hexadecimal conversions "in memory" up to 65535 decimal or FFFF hex. It can be used during the writing of a BASIC program by using SHIFT-D to convert from decimal or SHIFT-H to convert from hex. The answer appears on the screen and the program returns to BASIC. Very handy. Uses less than 256 bytes of reserved upper memory. \$6.95 postpaid. J. Lindsly, 8106 Quailwood Ct., West Chester, OH 45069.

For \$2 postpaid, you can receive a BASIC listing only (no cassette) of a "number Conversion Program" that converts decimal, hex, octal and binary numbers in the range of zero to FFFF. Dean R. Zimmerman, 444 North Grove Drive, Alpine, UT 84003. ♦