

TELERAM 3000



The Perfect Portable Computer.

The Teleram 3000 is the portable computer in a class all its own. Less than 9 lbs. and compact enough to fit easily into a standard briefcase, yet a full-function computer with a full-size keyboard. With up to 256kbytes of non-volatile bubble memory, it's all the power you need for virtually any application—in the field, while traveling or at a home. It also can be your most cost-effective option for an office system. Moved from desk to desk as needed, a Teleram 3000 can do the work of a desktop while being shared by several users.

The Teleram 3000 can be operated anywhere up to 10 hours from its internal, rechargeable battery, or from the included charger which is switch-selectable for U.S. or European voltages (115 VAC—230 VAC). The Teleram 3000 will also draw power from an

automobile cigarette lighter. The numerous other advantages of the Teleram 3000 include programmable keys allowing up to 51 functions, sophisticated communications software, a 4-line x 80-character flip-up scrolling display, a serial port and a teleCONNECT™* expansion bus. Teleram also offers a wide range of peripherals including a Teleram 3620 portable floppy drive, a Teleram 3610 monitor interface, the Teleram 3500 Office Station, printers and acoustic couplers.

The Teleram 3000 is typically used for field audit survey, inventory control, sales management, electronic mail, order entry, word processing, scheduling, process control accounting and more—wherever portability is required.

TELERAM 3000

HARDWARE

Computer

CPU: Z80-L
CPU clock: 2.5MHz

Memory

ROM: 4kbytes (contains power-on diagnostics, teleCONNECT™* initialization, bootstrap loader)
RAM: 64kbytes dynamic RAM, no wait states
External: 16kbytes overlay memory via teleCONNECT

Mass Memory

Bubble Memory: 128kbytes, configured as disk "Drive A:" expandable internally to 256kbytes
External: floppy, Winchester disk via teleCONNECT

Communications

Serial: one programmable RS232C, fully configurable
Line Protocols: DTR/CTS, XON/XOFF, keyboard selectable
Block Protocols: CRC-16 using teleTALK™**

Keyboard

Number: 83 stations
Programmable: 16 function keys (each 2-level programmable) 12-key numeric keypad (7 keys 2-level programmable, 5 keys 1-level programmable)

Display

Physical: 4-line x 80-character liquid crystal display
Logical: physical display acts as four-line scrolling window on a TeleVideo TVI-920C 24-line x 80-character display
External: 24-line x 80 character CRT via teleCONNECT

Power Requirements

Battery Operation: typical operation 5 hours between charges
AC Operation: 110/220VAC 50/60Hz use while recharging
DC Operation: 12VDC @ < 1A use while recharging
Power Dissipation: 3 watts average, 9 watts peak

SOFTWARE

Operating System

Standard: CP/M®*** Version 2.2
Optional: UCSD p-System™****

System Utilities

teleTALK: telecommunications utility which allows error-free file transfer via RS232C port
KEYDEF: function key definition utility which can allocate function keys differently for each applications program as well as for CP/M
DEFAULT: allows modification of keyboard (repeat rate and repeat delay), communications (baud rate, word length, stop bits, parity, and protocol), and IOBYTE parameters, saving them in non-volatile bubble memory
ASSIGN: a versatile I/O redirection utility, allowing user modification of an automatically compiled device table (see expansion section), saving parameters in non-volatile bubble memory
FORMAT: a disk formatting utility which allows use of disks formatted in Osborne single-density, IBM PC CP/M-86 double density (both single- and double-sided)
RECOVER: performs a SYSGEN on the 3000's bubble memory, for updating/modifying BIOS

Miscellaneous

Applications: fully compatible with CP/M 2.2 word processing, spreadsheet, database and other applications
Languages: fully compatible with CP/M 2.2 Pascal, BASIC, Fortran, Cobol, Z80 assembler and other languages

GENERAL

Physical Dimensions

Size: 13"W x 9.75"D x 3.5"H
Weight: 8.75 pounds

Environment

Operating Temperature: 40 deg. F to 130 deg. F (10C to 55C)
Operating Humidity: 5% to 95% non-condensing
Storage Temperature: -5 deg. F to 140 deg. F (-20C to 60C)

Reliability

Operating Vibration: 0-55 Hz 0.010" sinusoidal—all 3 axes
Non-Operating Shock: 15g for 20 msec—all 3 axes
Mean-Time-Between-Failure: 2,800 hours
Mean-Time-to-Repair: 30 minutes
EMI: certified for FCC Class B (Home Use) conforms to VDE Specification 0871 Class B

EXPANSION

Interface

teleCONNECT™: a proprietary 2.5MHz CPU bus which allows peripherals to be easily attached to 3000, and which supports the 3000's device table and I/O redirection scheme

Desktop Peripherals

Model 3500 Office Station: expansion chassis with six card slots, allows desktop use of 3000 with peripherals such as floppy disks, Winchester disks, CRT monitors, printers, modems, etc.

Transportable Peripherals

Model 3610 CRT Interface: a standalone monitor interface, capable of interfacing the 3000 to any standard 24-line x 80-character RS-170 CRT monitor
Model 3620 Floppy Disk Drive: a standalone floppy drive, including controller electronics, power supply, and charger for the 3000. Facilitates data movement and program installation, supports four disk formats.



TELERAM

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***UCSD p-System is a trademark of SofTech Microsystems, Inc.