

# TELERAM 3100



## ***The Preferred Portable For Text-Editing.***

Teleram's many years of experience as a leading supplier of portable text-editing terminals used by journalists, reporters and writers worldwide has been used to create the Teleram 3100. Easily carried at less than 9 lbs. and small enough to fit in a briefcase, the Teleram 3100 can be operated anywhere from its built-in rechargeable batteries, a car lighter or wall outlet. Up to 256kbytes of rugged non-volatile bubble memory provides massive storage capacity without the problems of battery backed memory or disk based products.

Designed for field or office use, the Teleram 3100 teleTEXT™\*\* text-editing software provides insert, overstrike, auto wordwrap, block

operation, auto search/replace, copy, move, delete, file status, file directory, and much more. It's easy to learn and simple to use. A data transmission menu driven program is included.

And the best part—the Teleram 3100 with its 4 line x 80 character LCD display is fully CP/M® 80\*\* compatible and can run 1000's of standard business programs.

A wide range of peripherals are available consisting of modems, printers, carrying case, Teleram 3620 portable disk drive and Teleram 3500 office station which converts the Teleram 3100 into a full desk top PC with the added benefit of front end portability.

# TELERAM 3100

## 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

### Text Editor

teleTEXT™\*\* : Professional writing tool compatible with Teleram Portabubble®/81\* and 2277 editors, fully user-configurable. Full background communications, including unattended receive. Formats, headers, search and replace, and single-keystroke editing commands.  
EDPARAM: TeleTEXT utility allowing user modification of translation tables, transmission headers and trailers, answer back, and imbedded sequences.

### 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 3100'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 3100, and which supports the 3100's device table and I/O redirection scheme

### Desktop Peripherals

Model 3500 Office Station: expansion chassis with six card slots, allows desktop use of 3100 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 3100 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 3100. Facilitates data movement and program installation, supports four disk formats.



# TELERAM

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\*\*CP/M is a trademark of Digital Research