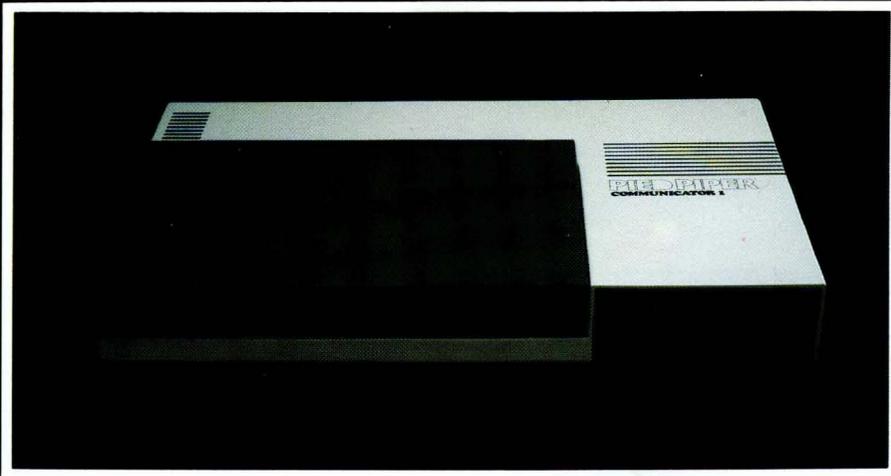
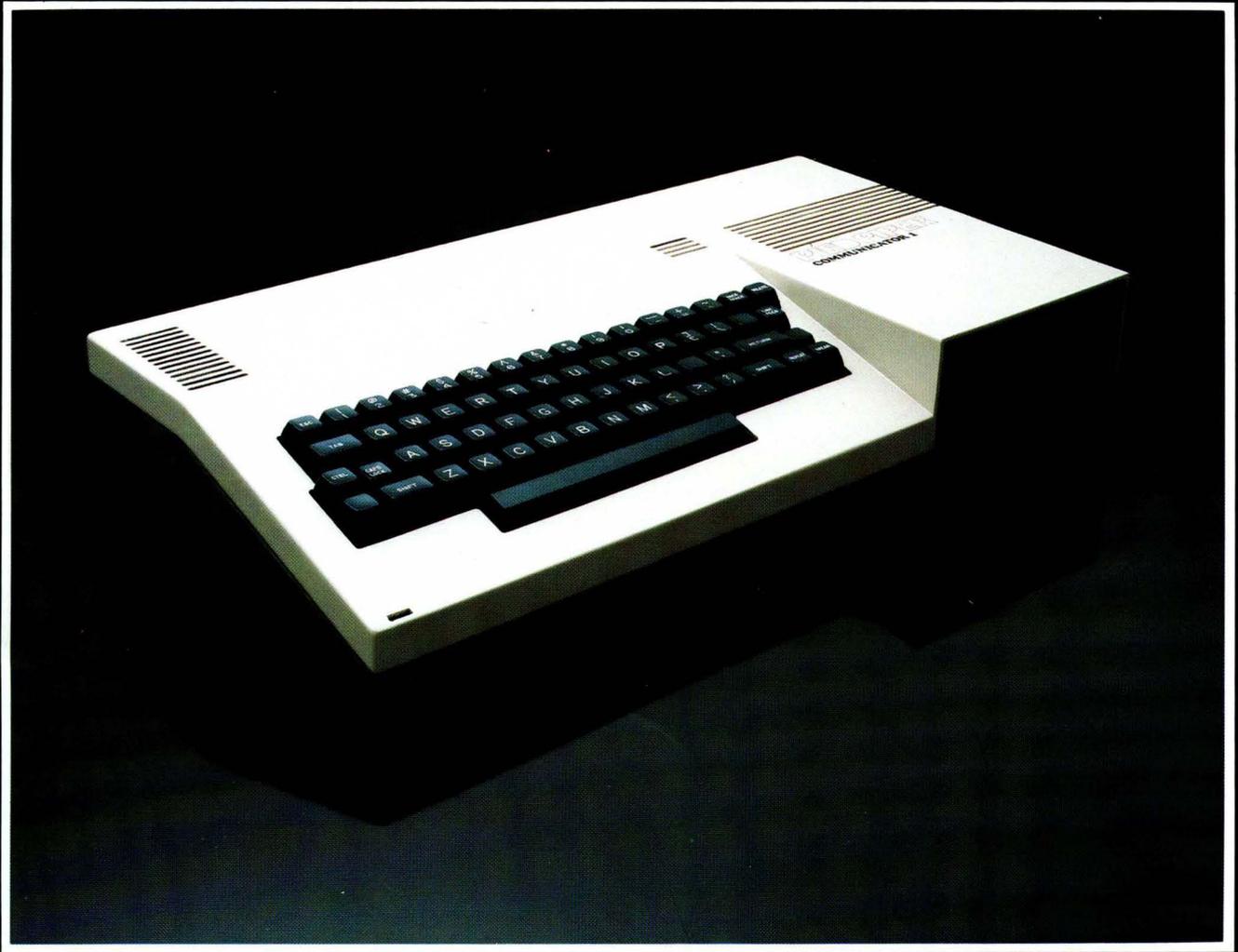


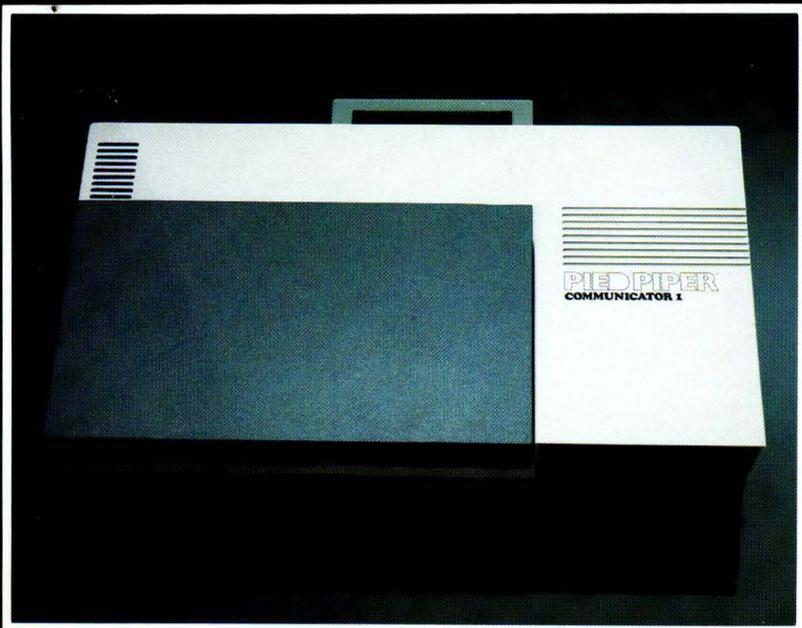
PIED PIPER

COMMUNICATOR 1





PIED PIPER COMMUNICATOR 1





PIED PIPER PHILOSOPHY

PORTABLE, AFFORDABLE, EXPANDABLE, BUSINESS/PERSONAL COMPUTER

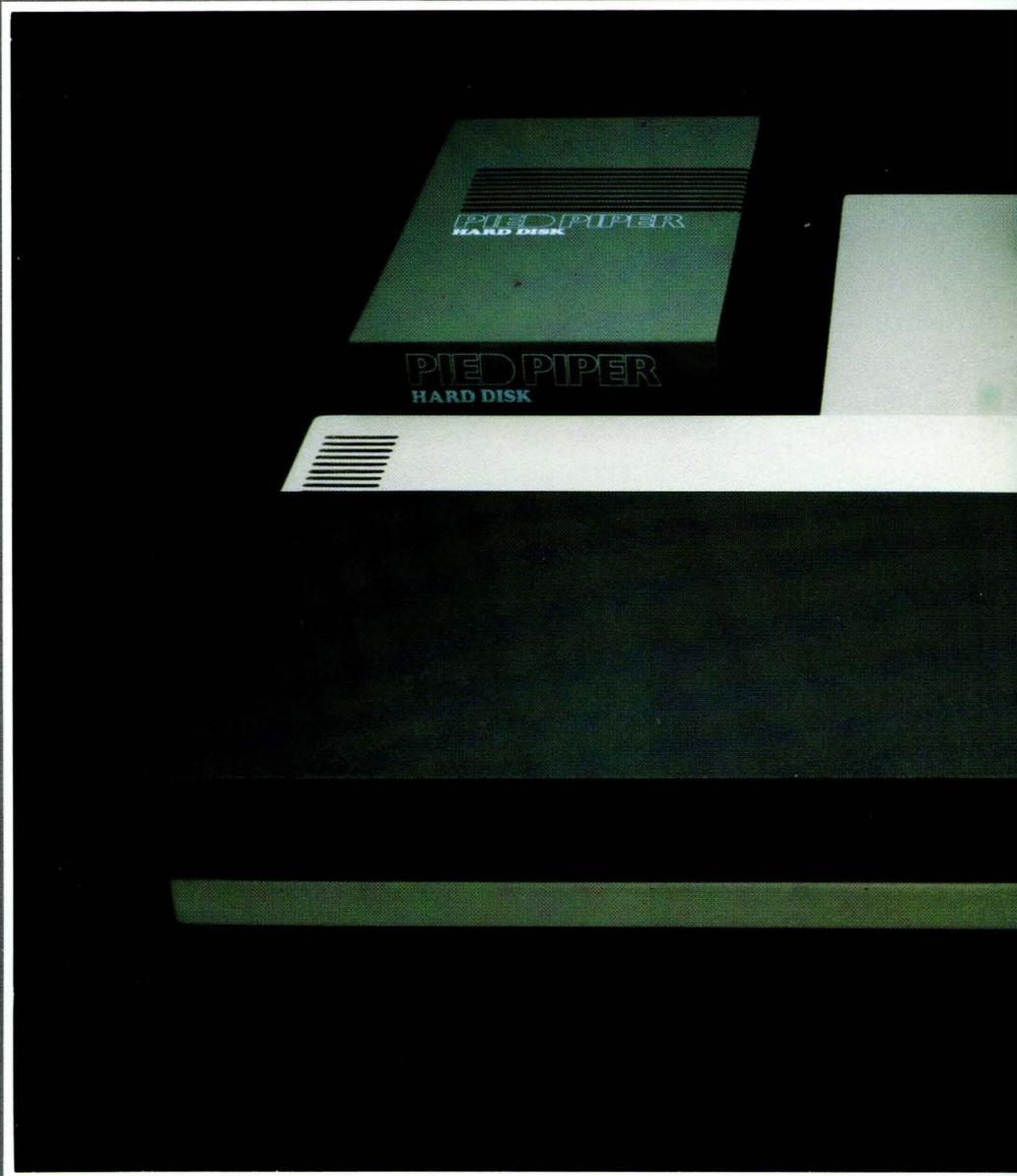
The Pied Piper Family of Computer Products introduces a new breed of low cost, high performance computers for both beginners and advanced users who demand that their system expand with their requirements.

The COMMUNICATOR I is the first truly portable, fully featured, expandable computer; compatible with either a monitor or a T.V.

Designed so both the beginner and sophisticated user will find it a pleasure to operate, the COMMUNICATOR I offers an excellent combination of hardware and software for a surprisingly low price.

THE COMMUNICATOR I PACKAGE INCLUDES:

- Processor unit with 64K of memory
- Built in floppy disk drive
- CP/M* operating system
- PLUS COMMUNICATOR I utilities
- PLUS word processing and electronic spreadsheet
- PLUS a BASIC interpreter
- Instruction manuals for system and application programs



PI



PIED PIPER

OFFICE APPLICATIONS

The Pied Piper COMMUNICATOR I comes with:

- CP/M*
- Word Processing
- Electronic spreadsheet
- BASIC

CP/M* is the standard operating system of the micro-computer industry. This means that there already exists a wealth of programs which will run on the COMMUNICATOR I. In addition, the COMMUNICATOR I comes with its own set of CP/M* compatible utilities.

The applications software supplied with the COMMUNICATOR I has been designed to take the drudgery out of office routine. For example, with word processing you can quickly draft letters, documents, contracts or tables which can later be easily edited. It takes only minutes to simplify mass mailing with the multipurpose file merging. You can also create invoices, print labels and produce 'boiler plate' legal documents from many different standard paragraphs.

With the electronic spreadsheet, you can quickly prepare budgets and reports, as well as accommodate last minute additions and deletions.

Finally, with the BASIC microcomputer language, you can begin creating your own programs. BASIC is the most popular microcomputer language available, and after a few hours with the BASIC manual and the COMMUNICATOR I, you'll be on your way.

RESEARCH AND DEVELOPMENT

THE COMMUNICATOR I is also an engineering development tool. The following languages run under the CP/M* operating system:

- Fortran
- Pascal
- Forth
- Cobol
- APL
- Assembler 8080/Z80
- C Language
- BASIC
- PL/1

Program development tools provided include:

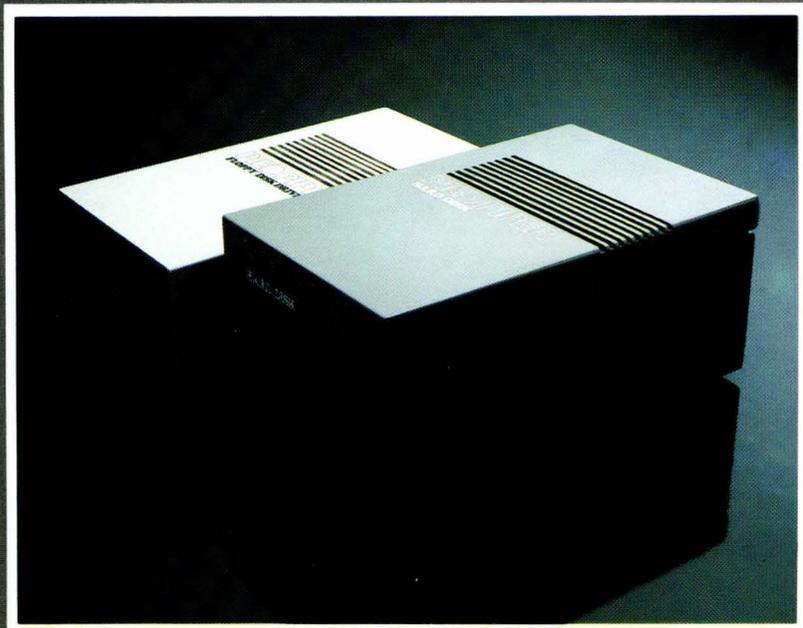
- Screen oriented editor
- Assembler
- Dynamic Debugging Tool (DDT)

Hardware Development:

The COMMUNICATOR I may be interfaced to industrial controller systems via the STD-bus.



PIED PIPER COMMUNICATOR 1



OTHER USES

The COMMUNICATOR I can be easily attached to your T.V. At home it becomes a useful aid in balancing your cheque book, calculating metric conversions, doing price comparison shopping and performing a host of other tasks.

As an exciting educational aid for children, the COMMUNICATOR I will help them learn math, practice reading and discover computers at the same time.

Best of all, the COMMUNICATOR I is portable. Take it home to complete those final report details, or bring it along on business trips.

PIED PIPER FAMILY OF EXPANSION OPTIONS

Expansion options are as follows:

- RS232C serial port with software programmable baud rate up to 19.2K
- 80 character by 2 line crystal display
- Telephone modem (with and without dialer)
- Printer (dot matrix or letter quality)
- Telephone dialer
- Speech synthesizer
- EPROM programmer
- Color graphics display generator
- Joysticks

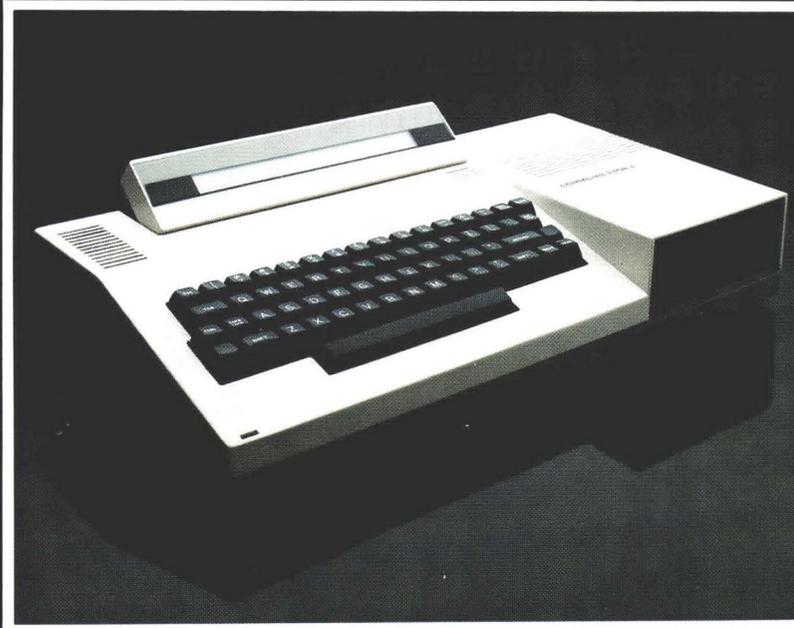
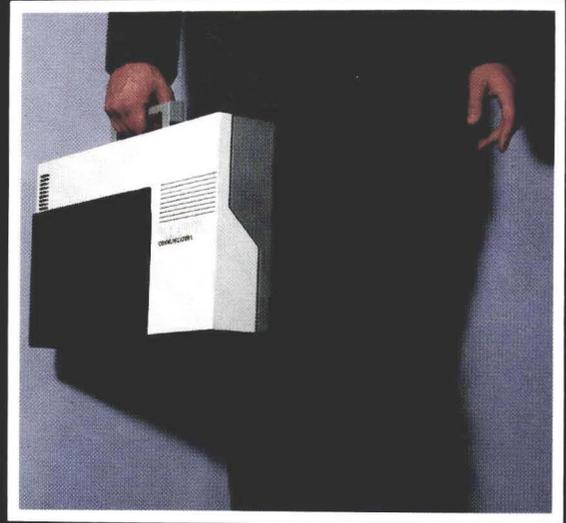
Peripherals include:

- Second floppy disk drive
- Hard disk storage unit
- Printer (dot matrix or letter quality)
- Video Monitor

INSTRUCTION MANUALS

A complete set of user-friendly instruction manuals accompanies the COMMUNICATOR I. The set includes:

- a simple, friendly guide for setting up the COMMUNICATOR I
- a special introduction to the CP/M* Operating System
- a comprehensive guide for CP/M* COMMUNICATOR I Utilities
- a user's guide for BASIC
- a user's guide for word processing and the electronic spreadsheet



PIED PIPER

COMMUNICATOR 1

SPECIFICATIONS

HARDWARE

PROCESSOR:	Z80A microprocessor
MEMORY:	64K bytes of read write memory 2K bytes of read only memory 2K bytes of video display buffer 2K bytes of read only memory for character generator
KEYBOARD:	Full size typewriter ASCII keyboard
PRINTER PORT:	Centronics type parallel printer port
DISPLAY CAPABILITY:	24 lines of 80 characters for video monitor 24 lines of 40 characters for T.V.
RF MODULATOR:	Allows display on either TV channel 3 or 4
FLOPPY DISK DRIVE:	5 1/4 inch slim line drive with 256K bytes of unformatted storage, 164K bytes formatted
POWER SUPPLY:	Switching supply sufficient for extra floppy disk or hard disk
BUS STRUCTURE:	STD-bus

SOFTWARE

OPERATING SYSTEM:	CP/M*, by Digital Research COMMUNICATOR I CP/M* Utilities M/BASIC interpreter by Microsoft WordStar** by MicroPro International Corporation MailMerge** by MicroPro International Corporation Electronic Spreadsheet
-------------------	---

EXPANDABILITY

Expansion for 2 boards
Connector for second floppy disk
Interface for hard disk

COMMUNICATION CAPABILITY

Network facility
Terminal emulation to access Datapac, the Source or Dow Jones

GENERAL SPECIFICATIONS

Physical Dimensions:	Height: 4.0 inches/10 cm Width: 20.2 inches/51 cm Depth: 10.8 inches/27 cm
Weight:	less than 15 pounds/7 kilograms
Power Source:	115/230 volts AC 50/60 Hz Power consumption 92 watts maximum
Environment Conditions:	Temperature: 50 F - 104 F (10 C - 40 C) Humidity: 20% - 80%

WARRANTY

A comprehensive 90 day parts and labor warranty is included with the system. After that, an Extended Limited warranty may be purchased.

* CP/M is a Trademark of Digital Research

** WordStar, MailMerge are Trademarks of MicroPro International Corporation

Subject to change without notice.

**PIED PIPER PERSONAL COMPUTER PRODUCTS DIVISION OF
SEMI-TECH MICROELECTRONICS CORPORATION**



STM Electronics Corporation

PIED PIPER I - SPECIFICATIONS

HARDWARE

PROCESSOR:

Z80A microprocessor

MEMORY:

64 Kbytes of RAM;
4 Kbytes of read only memory;
2 Kbytes of video display buffer;
2 Kbytes of read only memory for character generation

KEYBOARD:

Full size typewriter-style ASCII keyboard

PRINTER PORT:

Centronics type parallel printer port

DISPLAY CAPABILITY:

24 lines of 80 characters for video monitor; 24 lines of 40 characters for TV; upper/lower case plus special graphics characters

RF MODULATOR:

Connector for RF modulator allows display on TV

FLOPPY DISK DRIVE:

5¼ inch slim line drive with 1 Mbyte of unformatted storage; 800 Kbytes formatted

POWER SUPPLY:

Switching supply sufficient for extra floppy disk

OPTIONS:

RS232C serial port with software programmable baud rate up to 9.6K;
2 line X 80 column liquid crystal display; telephone modem

SOFTWARE

OPERATING SYSTEM:

CP/MTM; PIED PIPER I CP/MTM Utilities (disk formatting, file transfer, disk backup)

PROGRAMS:

Word processing/Perfect WriterTM; 50,000 word spelling dictionary/
Perfect SpellerTM; spread sheet/Perfect CalcTM; database/Perfect
FilerTM

OPTIONS:

SuperCalcTM; MBASIC[®]; dBase IITM; WordStarTM; MultiplanTM

EXPANDABILITY:

Room for two internal expansion boards; connector for second floppy disk; interface for hard disk

COMMUNICATION CAPABILITY:

Terminal Emulation to access THE SOURCESM or Dow Jones databases

GENERAL SPECIFICATIONS

PHYSICAL DIMENSIONS:

Height: 4.0 in./10cm; Width: 20.2 in./51cm; Depth: 10.8 in./27cm;
Weight: less than 13 pounds/6 kilograms;
Power Source: 115/230 volts AC 50/60 Hz; power consumption 92 watts maximum;
Environmental Conditions: Temperature: 50F - 95F (10C - 35C); Humidity: 20% - 80%

CP/M is a registered trademark of Digital Research, Inc.
Perfect Software, Perfect Writer, Perfect Speller, Perfect Filer and Perfect Calc are trademarks of Perfect Software, Inc.
SuperCalc is a trademark of Sorcim Corporation
MBASIC is a registered trademark of Microsoft
dBase II is a trademark of Ashton-Tate, Inc.
WordStar is a trademark of MicroPro International Corporation
Multiplan is a trademark of Microsoft Corporation
THE SOURCE is a service mark of Source Telecomputing Corporation, a subsidiary of the Reader's Digest Assn., Inc.

Specifications subject to change without notice.