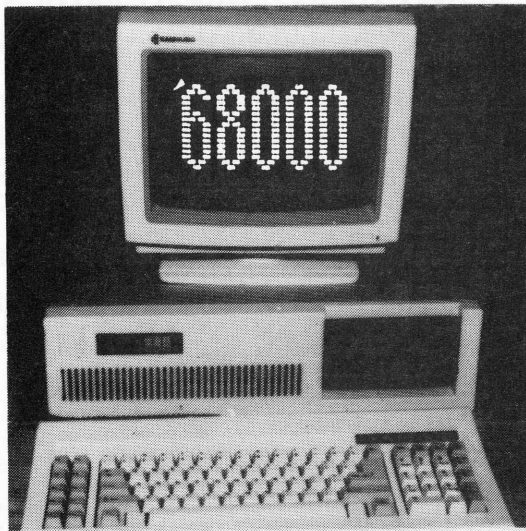
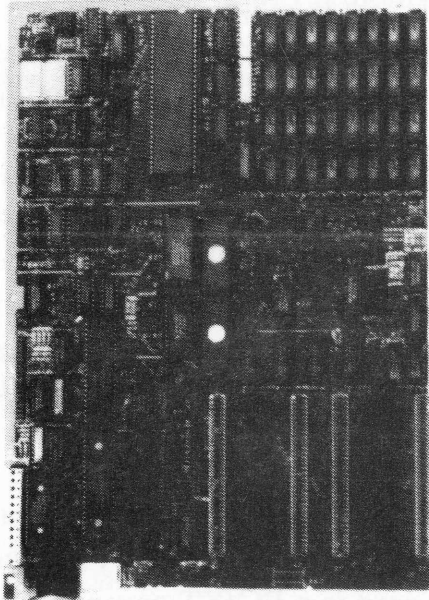


PT 68K-2 SINGLE BOARD COMPUTER



FEATURES

- MC68000 Processor, 8 MHZ Clock (optional 10, 12.5, 16 MHZ)
- 512K or 1024K of DRAM (no wait states)
- 4K of SRAM (6116)
- 32K, 64K or 128K of EPROM
- Four RS-232 Serial Ports, Uses the MC68681 DUART chip.
- Winchester Interface - Uses Western Digital controller WD1002A-HDO. The PC/XT expansion slots will support a Western Digital PC/XT type of winchester controller.
- Floppy disk controller will control up to four 5 1/4", 40 or 80 track.
- Clock with on-board battery.
- Two programmable interrupt timers.
- 2 - 8 bit Parallel Ports. May be used with a parallel printer.
- Board size - 12.0 X 8.5 inches.
- Power - 5V @2.0 Amps, \pm 12V @20 Ma.
- Board can be mounted in an IBM type PC/XT cabinet and has a power connector to match the IBM type power supply.
- Expansion ports - 6 IBM PC/XT compatible I/O ports. The HUMBUG™ monitor supports monochrome and/or color adaptor cards and Western Digital winchester interface cards.

PERIPHERAL TECHNOLOGY

1710 Cumberland Point Dr, Suite 870

Telex #880584 Marietta, Georgia 30067 USA 404/984-0742

SYSTEM OVERVIEW

The PT68K-2 single board computer is a high performance, low cost single board computer. The PT68K-2 is available as a kit, an assembled board or in complete systems.

Complete systems feature the PT68K board mounted in a baby AT type cabinet with a 150 watt switching power supply. The baby AT cabinet includes an LED display panel monitoring power, disk activity and "HALT" status. The cabinet has space for one full height winchester drive and two half height floppy disk drives.

Connection of a terminal to the PT68K-2 may be by use of an RS-232 terminal or by use of IBM XT/AT compatible peripherals. An IBM XT/AT compatible keyboard, monochrome display card and a monochrome (usually amber) monitor are required if an RS-232 terminal is not available. A color display card and monitor may be used in place of the monochrome monitor if desired. Character resolution is a 5X7 cell for the color display card and 7X9 for the monochrome display card.

The PT68K-2 supports two different types of winchester interface cards. The first is a Western Digital WD1002A-HDO controller card. This card connects to the PT68K-2 by a 40 conductor ribbon cable. The second type of winchester controller card is a PC/XT compatible Western Digital controller card. This card will plug into one of the IBM compatible I/O slots. The PC/XT type is recommended over the WD1002A-HDO, since it is less expensive and more readily available. Other brands of controllers will not work in the PT68K-2. Any ST506 or ST412 compatible winchester drive may be used with the PT68K-2. The winchester format program prompts for drive parameters, making it possible to use any size of drive.

The PC/XT compatible slots are designed for use with I/O type cards and not memory cards. Since the 68000 micro-processor is a 16 bit processor and the PC/XT slots are eight bit slots, memory cards will appear with memory in every other location. Since memory cards are not usable the memory refresh portion of the IBM compatible slots is not implemented. This causes no problems for the type of cards intended to be used with the 68000 such as A-to-D, D-to-A, RS232 cards, speech cards, music cards or other types of I/O cards.

The PT68 K-2 contains a floppy disk controller. This controller will control up to four 5-1/4 inch drives. While 40 track drives can be connected to the computer, 80 track drives are highly recommended over 40 track drives. SK*DOS™ is available on 40 track diskettes on special request.

The PT68K-2 has a special type of real time clock. This chip contains 2K of RAM, a battery and crystal. Up to 4K of battery backed-up RAM is possible with an optional chip.

SK*DOS 68000 OPERATING SYSTEM

SK*DOS is a single user operating system for computers using the Motorola 680XX family of microprocessors. SK*DOS provides the power of a full DOS, yet is simple and easy to use and will run on systems with 32K to 16 megabytes of RAM. SK*DOS supports advanced features such as ramdisk, disk caching and I/O redirection. SK*DOS includes a simulator for SK*DOS/6809 which allows code for the Motorola MC6809 processors to be written and debugged under SK*DOS/68000. The simulator allows most 6809 programs or utilities to execute directly under SK*DOS/68000.

SK*DOS includes an editor and assembler, BASIC, CMODEM (a communications program), over 40 utilities and a users manual.

Optional Languages/Utilities

C Compiler

RBasic

Configuration Manual

Supplied Utilities

CAT	CHECKSUM	COMPARE	COPY	CONVERT
DELETE	DEVICE	DISKNAME	DOSPARM	DRIVE
ECHO	EDLIN	FIND	FORMAT	FROMSDOS
FTOH	FIXBOOT	HDFORMAT	HELP	HTOF
INPIPE	LINK	LIST	LOCATE	PDELETE
PEEK	POKE	PROTECT	RAMDISK	REDOFREE
RENAME	SEQUENCE	SK*DOS09	SPLIT	TCAT
TIME	TOMSDOS	UNDELETE	VERSION	WORK

HUMBUG Monitor

The HUMBUG monitor™ acts as an interface between the user and the computer hardware. You may start the monitor from either an RS-232 port or a PC type video card plugged into one of the six PC/XT type I/O slots.

HUMBUG contains 30 commands including a small BASIC. The commands are listed below:

AD - Formatted ASCII Dump
AI - ASCII Input
AO - ASCII Output
BA - BASIC Interpreter
BP - Print Breakpoints
BR - Breakpoint Set/Reset
CO - Continue
CS - Checksum
FD - Floppy Disk Boot
FI - Find
FM - Fill Memory
HA - HEX and ASCII Dump
HD - Hex Dump
HE - Help
JU - Jump to User Program

JS - Jump to System Program
LO - Load S1/S9 Binary Format
MC - Memory Compare
ME - Memory Examine
MO - Move Memory
MS - Memory Store
MT - Memory Test
RC - Register Change
RD - Return to SK*DOS
RE - Register Examine
SS - Single-Step
ST - Start Single-Stepping
WA - Winchester Boot A
WB - Winchester Boot B
!! - Monitor Reset

This Product Available From:

