FEATURES

- 1 to 6 users
- CP/M 2.2 compatible TurboDOS operating system
- Each user has:
  - 4.0 MHz Z80A
  - 64K bytes memory
  - 2 serial ports
- Printer interface, supports 2 parallel printers and up to 5 serial printers, with spooling
- Z80A Master CPU with 128K bytes RAM
- 800K bytes minifloppy drive
- 10 Megabyte hard disk
- Industry standard STD bus
- Table Top enclosure

DESCRIPTION

Serving applications for multiple users sharing common peripherals and data bases, the COLEX 880 family provides both a low entry cost for the single user COLEX 881 while keeping a low upgrade cost up to the 6 user COLEX-886 system. Compatible with the popular CP/M operating system, the COLEX-880 family uses TurboDOS and offers each user a dedicated Z80A CPU, local terminal, printer, and 64K bytes of memory. TurboDOS has been optimized for speed, although all 8080 compatible CP/M 2.2 programs will run under TurboDOS, the operating system has been written in the much faster Z80 instruction set. The result is a new standard in high speed multiuser computers.

Z80 MASTER CPU – A Z80 CPU with 128K bytes of memory is the master for the entire system. It manages the common printers, spooling, the hard disk, real time clock, floppy disks and all system slaves. The master CPU functions as the first user, and has 2 serial ports directly attached to it.
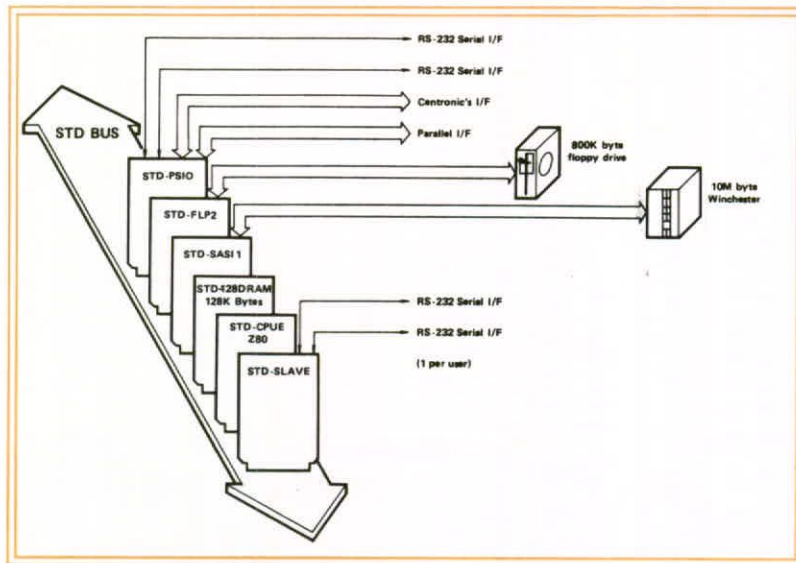
Z80 SLAVE CPUS – Each additional user has a dedicated Z80A CPU, 2 serial ports, and 64K bytes of memory. The interface to the master CPU is designed for fast message switching. It operates as a network, with many times the bandwidth of conventional networks built using serial busses. One serial port is used for the local terminal, the other for a serial printer.

PRINTER INTERFACES – The system supports 2 parallel and up to 5 serial printers. The parallel printers are accessable by all users, the serial printers are dedicated to each user. The printer interfaces are supported by spooling, allowing print and other activities to be overlapped. This further increases the speed of the COLEX-880.

HARD DISK STORAGE – The standard system is delivered with a 10 megabyte hard disk. Larger sizes are available on request. The disk is accessable to all users. File lockout, user protection, local and global files are all supported by the TurboDOS operating system.

FLOPPY DISK – A 5.25" 800k byte minifloppy disk drive is provided. This drive is typically used for backing up the hard disk, and for exchanging software with other systems. The system can also support a 8" floppy disk connected externally to the system.

STD BUS – The system uses the STD bus. This allows the basic configuration to be expanded to multiuser operation at much lower cost than other bus concepts. The bus also allows an OEM to interface customized peripherals or additional memory to the system. COLEX is a leader in manufacturing of STD-BUS systems and boards, and offers both 8 and 16 bit STD bus products.

SPECIFICATIONS

ELECTRICAL

- □ System bus : STD-Z80
- □ Clock : 4.0Mhz Master
  4.0 Mhz Slaves
- □ Memory : 128K bytes Master
  64K bytes Slave
- □ I/O capacity : 2 RS232 serial ports
  2 parallel Centronics printer ports
- □ Disk Interface : DMA
- □ Disk capacity : Hard disk 10 MB
  Floppy disk 800 KB
- □ Operating temperature
  15 to 35 Deg C
- □ Power requirements :
  110-130 VAC
  220-240 VAC
  50 or 60 Hz

MECHANICAL

□ Dimensions:

Form Factor	H	W	L	Units
COLEX-880	7.5	14.0	20.0	inches

□ Weight: 37 lbs. (17 Kg.)

ORDERING INFORMATION

Part Code	Description
COLEX-881	Entry level system. 1 user, Turbodos operating system, 128KB RAM, 1 Floppy disk drive (780KB), 2 serial ports, 2 parallel ports.
COLEX-882	2 user system. 192KB RAM.
COLEX-883	3 user system. 256KB RAM.
COLEX-884	4 user system. 320KB RAM.
COLEX-885	5 user system. 384KB RAM.
COLEX-886	6 user system. 448KB RAM.
STD-SLAVE	Optional add-in user interface processor. Z80 CPU, 2 serial ports, 64KB RAM, cables for installation into the system, configuration instructions.

Standard versions are all 110 volt, 50/60 Hz. To specify the 220 volt version, add an 'E' after the product name.

TurboDOS is a trademark of SW 2000 Inc.
CP/M Plus is a trademark of Digital Research, Inc.
Centronics is a trademark of Centronics, Inc.