

Altos 580 Series



The Altos 580 product family is a complete line of multi-user 8 bit microcomputer systems. Designed for growth, the Altos 580 can be expanded to support up to three user workstations and one printer. Users can perform many different functions simultaneously within a single low cost computer, taking advantage of the wealth of 8 bit software available.



General Description

The Altos 580 series consists of two desktop computer systems, with either 19 or 42 megabytes of hard disk storage. They utilize the proven Z80A processor, 192 kilobytes of memory, and a one megabyte floppy diskette. Each system includes four RS232 ports, a parallel printer port, and a disk expansion port. Additionally, each system will perform self-diagnostics when power is turned on. Systems in this family are shipped with MPM II operating system.

Features and Capabilities

Microprocessor

The central processing unit is a Z80A 8 bit microprocessor operating at four megahertz. It can address up to 192 kilobytes of RAM memory in 64 kilobyte blocks. Each system allows for partitioned memory to prevent contention among users by allocating each user a block of 48 kilobytes.

Integral Data Storage

All 580 Series systems provide 5 1/4 inch, double density, double sided floppy disk capability. Such diskettes can store up to 720 kilobytes of formatted data and files. Nonremovable hard disk storage is available in 15 megabyte and 35 megabyte formatted configurations, with the capability for an additional hard disk drive.

Hardware Options

Magnetic Tape Backup

A cartridge tape backup unit, housed individually in a similar cabinet, can be purchased for any Series 580. It is easily connected to the host system and requires no additional programming. Each cartridge tape holds 17 megabytes of unformatted storage.

Additional Disk Storage

All systems can be configured with an additional 42 megabyte unformatted disk, housed individually in a similar cabinet. It plugs directly into the 580 disk port without system reprogramming.

Software Options

Asynchronous Communications

With the use of the Asynchronous Software Package, the Altos 580 Series can appear to be an asynchronous terminal. This allows users from their terminals to communicate with external computers, including other Altos systems, as well as to timesharing and remote database services.

IBM Communications

Optionally, the Altos 580 Series can support IBM 3780 file transfer or 3270 terminal emulation protocols. These two protocols are accepted communication standards used on IBM as well as other computers. A bisynchronous modem is required.

Operating Systems

Available as an option for Altos 580 products is the OASIS™ 8-bit multi-user operating system.

Languages

A variety of languages are supported for each system. The list includes several versions of Basic and Cobol, as well as Fortran and Pascal. Please consult a current price list for specific offerings and prices.

Specifications

Microprocessor

CPU	Z80A
Technology	NMOS
Data/Instruction Word Size	8 bit
Data Bus Size	8 bit
Clock Frequency	4 MHz

RAM Memory

Configured	192 KBytes
Maximum	192 KBytes
Cycle Time	450 nanoseconds

Floppy Disk

Number of Drives	1
Physical Size	5 ¼ inch
Unformatted/Formatted Capacity	1 MByte/720 KBytes
Data Transfer Rate	250 Kb/sec
Average Access Time	132 msec

Hard Disk

Number of Drives	1
Unformatted/Formatted Capacity	
580-20	19 MBytes/15 MBytes
580-40	42 MBytes/35 MBytes

Average Access Time	
580-20	85 msec
580-40	45 msec

Data Transfer Rate	5 Mb/sec
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Ports

Asynchronous Serial	4
Asynchronous Parallel	1
External Disk	1

Physical Characteristics

Width	17"
Height	6"
Depth	18"
Weight	33 lbs

Environmental and Safety Standards

Meets FCC Docket 20780 class A requirements
UL and CSA Approved

Ambient temperature range	60°-90° F (15°-32° C)
Relative Humidity Range	20-80%
Power Dissipation	250 watts

Ordering Information

Each 580 model is configured with 192 KB RAM, 1 MB floppy disk drive, four RS-232 serial ports, one parallel printer port, and MPM II Operating System. Hard disk capacity varies with each model.

Order Number 580-20	(19 megabyte Hard Disk)
Order Number 580-40	(42 megabyte Hard Disk)



COMPUTER SYSTEMS

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