



The Altos 580 Series is a complete line of powerful 8 bit microcomputers. Designed for growth, the 580 Series can be expanded to support up to 3 user workstations and one printer. The multipurpose Altos 580 Series provide a complete business solution with support of industry standard operating systems and languages, full communications, and a range of software applications to meet every business need.



General Description

The 580 series of products are comprised of three desktop multi user systems which will support from one to three users. The system provides an entry level diskette based system with additional models supporting 12 and 20 megabytes winchester disk for future expansion. The series consists of the following features:

- Eight bit Z80A microprocessor
- 192K Bytes of main memory with parity
- 5¼ inch winchester disk and floppy disk support
- Multi-user system with 4 serial RS-232 ports
- Parallel interface for controlling one high speed, line printer
- Self diagnostics at power up

Features and Capability

Microprocessor

The central processing unit is a Z80A 8 bit microprocessor which operates at 4 Mhz and address 192K bytes of memory in banks of 64K bytes. Each system allows for partitioned memory in order to prevent contention among users by allotted each user a block of 48K. Dedication of memory to individual users keeps one job from interfering with another.

Integral Data Storage

All 580 Series systems provide minimum diskette capacities of 1 megabyte utilizing the 5¼ inch disk technology. Winchester hard disk are also provided in 12 and 20 megabyte capacities. The system disk controller also supports an additional 12 megabyte disk as a second drive. Since fast access to stored data is crucial for multi-user systems, each system utilizes direct memory access for optimization of disk speeds.

Communications

The 580 Series supports asynchronous and synchronous protocols including 3270/3276 IBM Cluster Terminal Controller Emulation and 3780 IBM Bisynchronous Package

Configurations

580-2	192K bytes of RAM
	2 megabyte Diskette
	4 Serial RS-232 Ports
	1 Parallel Port
	MPM II Operating System

192K bytes RAM
1 megabyte Diskette
12 megabyte Winchester

Disk 4 Serial RS-232 Ports 1 Parallel Port

MPM II Operating System

580-20 192K bytes RAM 1 megabyte Diskette 20 megabyte Winchester

> Disk 4 Serial RS-232 Ports 1 Parallel Port

MPM II Operating System

Specifications

Data word size Instruction word size	NMOS 8-bit 8-bit 4 MHz
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RAM Memory

Capacity	192 KB
Cycle time	450 ns

I/O Control

Type of interrupt system	Vectored
Serial RS-232C ports	4
Parallel port	1

Floppy Storage 580-2 580-10,/20 Number of drives 2 1 Physical size 5¼ inch 5¼ inch Unformatted capacity 2 MB 1MB

Density	Double	Double
Sides	4	2
Data transfer rate	250 Kb/sec	250 Kb/sec

Access time

(average) 132 msec 132 msec

Winchester Storage

Number of drives Physical size Unformatted capacity	1 5¼ inch
580-10	12 MBytes (10 iMB
580-20	Formatted) 19 MBytes (15 MB Formatted)
Data transfer rate Access time	5 Mb/sec
(average)	85 msec

Operating System

MP/MII™ OASIS™

Languages

ВІ 280™	Microsoft Cobol
CBasic [™]	R/M COBOL™
CBasic Compiler CB-80T	M CIS Cobol™
Microsoft Basic™	Pascal MT+™
Microsoft Basic Compiler	-™ Microsoft Fortran™

Optional Mass Storage Add-On

12 MB Winchester disk (unformatted)

Physical Characteristics

Width	16%"
Height	6"
Depth	18"
Weight	25 pounds

Environmental and Safety Standards

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Meets FCC docket 20780 Class A	requirements
UL approved	
CSA approved	
Ambient Temperature range	15-32°C
_	50-90°F
Relative humidity	
(non-condensing)	20-80%
Power dissipation	200 watts

OASIS is a trademark of Phase One Corp.

C Basic is a trademark of Digital Research, Inc. RM/COBOL is a trademark of Ryan McFarland MP/M, CP/M & C Basic Compiler CB-80 is a trademark of Digital Research, Inc.

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