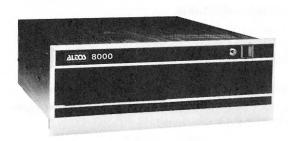
# Series 8000



The Altos 8000 Series is a complete line of multi-user 8 bit systems supporting up to 4 users and one printer. Designed for expanding organizations, the 8000 Series provides a complete business solution. These multi-purpose systems support a wide range of hardware options for future expansion, full communications, and a range of software applications and languages to meet every business need.



# **General Description**

The Series 8000 consists of three microcomputer systems based on the Zilog Z80A microprocessor. All 8000 systems provide support for up to 4 users simultaneously. Storage capacities range from 10-40 megabytes with add on capabilities to give a total on line capacity of 80 megabytes. Each system in the 8000 series features:

- 8 bit Z80A microprocessor
- 208K Bytes of Random Access Memory
- Multi user system with 6 serial RS-232 ports
- Parallel interface capable of controlling one high speed line printer
- 8 Inch Winchester disk and floppy disk support
- Magnetic tape storage options for back up purposes

# **Features and Capabilities**

#### Microprocessor

The central processing unit is a Z80A 8 bit microprocessor which operates at 4 Mhz. The system design is capable of addressing 208K bytes of memory in 64K blocks. Each system allows for partitioned memory in order to prevent contention among users with 48K being allotted for each user. Dedicating memory to each user keeps one job from interfering with another.

## **Data Storage**

All Series 8000 systems support one 8 inch diskette drive with a .5 megabytes capacity. Increased storage is supported thru 8 inch Winchester disks in 10, 20 or 40 megabyte options. Upgrade options are also available for any series machine either 10 or 40 megabyte capacities. The Series 8000 provides entry level storage of 10 megabytes with upward growth to a total on line capacity of 80 megabytes.

The 8000 Series systems also support a magnetic tape for optional back up on any system. The tape unit is a stand alone cartridge with storage capacity of 17 megabytes unformatted.

#### Communications

All 8000 series systems support asynchronous and synchronous protocols. This includes 3270/ 3276 IBM Clustered Terminal Controller/Emulator and 3780 IBM Bisynchronous Package.

# Configuration

8000-10	208K Bytes RAM .5 megabytes Floppy 10 megabytes Hard Disk 6 Serial RS-232 Ports 1 Parallel port MPM II Operating System
8000-12	208K Bytes RAM .5 megabytes Floppy 21 megabytes Hard Disk 6 Serial RS-232 Ports 1 Parallel port MPM II Operating System
8000-14	208K Bytes RAM .5 megabytes Diskette 42 megabytes Hard Disk 6 Serial RS-232 Ports

1 Parallel port

MPM II Operating system

# **Specifications**

#### Microprocessor

Model Z80A
Technology NMOS
Data Word 8 bit
Instruction word size Clock Frequency 4 M Hz

#### **RAM Memory**

Capacity 208K Bytes Cycle Time 450 NSec

#### I/O Control

Type of interrupt vectored Serial RS-232 6 Parallel ports 1

### Floppy Storage

Number of Drives 1
Physical Size 8 inch
Unformatted capacity .5 MB
Density Double
Sides Single

#### Winchester Storage

Number of drives Physical Size 8 inch Unformatted capacity 8000-10 10 MB (9 MB Formatted) 8000-12 21 MB (16 MB Formatted) 42 MB (33 MB Formatted) 8000-14 Data Transfer Rate 4MB/sec Average Access Time 8000-10 70 m/sec

55 m/sec

65 m/sec

#### **Operating Systems**

8000-12

8000-14

MPM II<sup>TM</sup> Oasis<sup>TM</sup>

#### Languages

BI 280<sup>™</sup>
CBasic<sup>™</sup>
CBasic Compiler CB80<sup>™</sup>
Microsoft Basic<sup>™</sup>
Microsoft Basic Compiler<sup>™</sup>

Microsoft Cobol™
R/M Cobol™
CIS Cobol™
Pascal MT+™
Microsoft Fortran 80™

#### **Altos Computer Systems**

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#### **Optional Mass Storage Addons**

10 MB Winchester Disk for 8000-10 40 MB Winchester Disk for 8000-12 and 8000-14

17MB Magnetic tape unit for any Series 8000

#### **Physical Characteristics**

Width 19" Height 7" Length 22" Weight 80 lbs

#### Communications

Asynchronous 3780 IBM BiSynchronous 3270/3276 IBM Clustered Terminal Emulator

#### **Environmental and Safety Standards**

Meets FCC docket 20780 Class A requirements UL and CSA approved
Ambient Temperature range
15 – 32°C
50 – 90°F
Relative Humidity

20 – 80% (noncondensing) Power dissipation 200 watts

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