Acumen 5000 Memory Boards
for NCR & Unisys

Product: Acumen 5000
Compatibility: NCR Tower XP, Unisys/Sperry 5000/40
Availability: IMMEDIATE

Size	P/N	Reseller	Retail
2 Megabyte	90491000	**$600**	$1250
4 Megabyte	90492000	**1200**	2500
8 Megabyte	(2x) 90492000	**2400**	5000

Product: Acumen 5000
Compatibility: NCR Tower 400, 450, 600, 650
Unisys 5000/30, 5000/35, 5000/55
Availability: IMMEDIATE

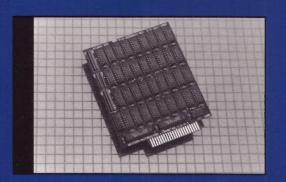| Size	P/N	Reseller	Retail
4 Megabyte	(2x) 90491000	**$1200**	$2500
8 Megabyte	(2x) 90492000	**2400**	5000
16 Megabyte	(4x) 90492000	**4800**	10000

Note: boards must be installed in pairs

For more information on the Acumen Family of memory products or any of Western Automation's product lines please contact:

Western Automation Laboratories, Inc.
1700 North 55th Street
Boulder, CO 80301
1-800-227-4637
(303) 449-6400

Upgrades for Acumen, NCR and Unisys boards available on request

Western Automation

ACUMEN 800

SYSTEM COMPATIBILITY	Altos 686 and 886
CAPACITY	1 MB
DIMENSIONS	4.65" x 4.10"
BUS	Installs into memory expansion slot; 16 bit data bus with parity error detection
WARRANTY	One year

ACUMEN 500

SYSTEM COMPATIBILITY	Altos 386 Series 500
CAPACITY	4 and 8 MB
DIMENSIONS	5.35" x 13.60"
BUS	Installs into either memory expansion slot; 32 bit data bus with parity error detection
WARRANTY	One year

///Acumen
by Western Automation

Expand system memory and performance with ACUMEN memory boards.

CHOICE. With high quality products—without the high costs—Western Automation provides Altos users with an alternative: Acumen memory expansion.

RELIABILITY. Each board is "burned in" at elevated temperatures to ensure solid field operation for years to come. Four-layer circuit board design and quality construction are employed for reliable, high speed performance.
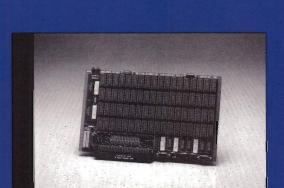
EASY INSTALLATION. Increasing the memory of your Altos computer has never been easier. A detailed installation manual and ESD static strap are included with every Acumen board.

COMPATIBILITY. Acumen memory boards are 100 percent hardware and software compatible with original Altos equipment. They provide an efficient solution for increased performance, as well as a reliable method 'for expanding the memory of your Altos system.

Acumen is a trademark of Western Automation Laboratories, Inc. UNIX is a registered trademark of AT&T. Altos is a trademark of Altos Computer Systems.

ACUMEN 1000

SYSTEM COMPATIBILITY	Altos 386 Series 600 and 386 Series 1000 (16, 25, 33 MHz)
CAPACITY	2, 4 and 8 MB
DIMENSIONS	5.13" x 8.50"
BUS	Installs into any memory expansion slot; 32 bit data bus with parity error detection
WARRANTY	One year

///Acumen
by Western Automation

Expand system memory and performance with ACUMEN memory boards.

CHOICE. With high quality products—without the high costs—Western Automation provides Altos users with an alternative: Acumen memory expansion.

RELIABILITY. Each board is "burned in" at elevated temperatures to ensure solid field operation for years to come. Four-layer circuit board design and quality construction are employed for reliable, high speed performance.
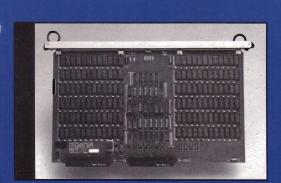
EASY INSTALLATION. Increasing the memory of your Altos computer has never been easier. A detailed installation manual and ESD static strap are included with every Acumen board.

COMPATIBILITY. Acumen memory boards are 100 percent hardware and software compatible with original Altos equipment. They provide an efficient solution for increased performance, as well as a reliable method for expanding the memory of your Altos system.

Acumen is a trademark of Western Automation Laboratories, Inc. UNIX is a registered trademark of AT&T. Altos is a trademark of Altos Computer Systems.

COMPUTER SUPPORT OF SIOUX CITY, LTD. 4200 W. Gordon Drive • Sioux City, IA 51109
(712) 277-0095 Admin. • (712) 258-8888 Sales • (712) 258-7777 Technical Support • (712) 277-2638 FAX

///Acumen
by Western Automation

ACUMEN 2000

SYSTEM COMPATIBILITY	Altos 1086, 2086, 3068, 3086 and 386 Series 2000
CAPACITY	2, 4, 8 and 16 MB
DIMENSIONS	14.50" x 8.56"
BUS	Utilizes Altos's extension of IEEE MultiBus with a 32 bit data bus, 24 bit address bus and parity error detection on each byte
WARRANTY	One year

Expand system memory and performance with ACUMEN memory boards.

CHOICE. With high quality products—without the high costs—Western Automation provides Altos users with an alternative: Acumen memory expansion.
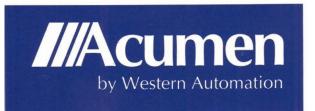
RELIABILITY. Each board is "burned in" at elevated temperatures to ensure solid field operation for years to come. Four-layer circuit board design and quality construction are employed for reliable, high speed performance.

EASY INSTALLATION. Increasing the memory of your Altos computer has never been easier. A detailed installation manual and ESD static strap are included with every Acumen board.

COMPATIBILITY. Acumen memory boards are 100 percent hardware and software compatible with original Altos equipment. They provide an efficient solution for increased performance, as well as a reliable method for expanding the memory of your Altos system.

ACUMEN 5000

SYSTEM COMPATIBILITY	Altos Series 5000
CAPACITY	8, 16, 32, 48 and 64 MB
DIMENSIONS	5.125" x 13.375"
BUS	Installs into one of two memory expansion slots; 32 bit data bus with parity error detection
WARRANTY	One year

Expand system memory and performance with ACUMEN memory boards.

CHOICE. With high quality products—without the high costs—Western Automation provides Altos users with an alternative: Acumen memory expansion.

RELIABILITY. Each board is "burned in" at elevated temperatures to ensure solid field operation for years to come. Four-layer circuit board design and quality construction are employed for reliable, high speed performance.

EASY INSTALLATION. Increasing the memory of your Altos computer has never been easier. A detailed installation manual and ESD static strap are included with every Acumen board.

COMPATIBILITY. Acumen memory boards are 100 percent hardware and software compatible with original Altos equipment. They provide an efficient solution for increased performance, as well as a reliable method for expanding the memory of your Altos system.

Acumen is a trademark of Western Automation Laboratories, Inc. UNIX is a registered trademark of AT&T. Altos is a trademark of Altos Computer Systems.

$Profit Line

Western Automation's News Line for Acumen dealers.

NOW SHIPPING.......

ACUMEN 1000 –

2, 4, and 8MB memory boards for the Altos 386 Series 1000 computers.

ACUMEN 2000 –

2, 4, 8, and 16MB memory boards for the Altos 1086, 2086, 3086, 3068 and 386 Series 2000.

We have received an overwhelming response to the introduction of both the Acumen 1000 and 2000. Shipments began in March, with **introductory pricing*** **extended until May 31, 1989.**

Acumen 1000

Size	Reseller	List
2MB	$1370	$1960
4MB	$2775	$3960
8MB	$5400	$7720

Acumen 2000

Size	Reseller	List
2MB	$1200*	$ 1715*
4MB	$1840*	$ 2625*
8MB	$5400	$ 7715
16MB	$7200*	$10285*

Every Acumen board is backed by a one year factory warranty.

Introducing WALI

Although Western Automation Laboratories, Inc. (WALI) may be new to you, we're not new to the computer industry. Since our founding in 1979, our headquarters has remained in Boulder, Colorado. Now a multi-million dollar corporation, Western Automation maintains a new division, Spectra Logic, in Sunnyvale, California.

Western Automation's strength in the computer industry has developed through our ability to adapt to changing market needs. We currently manufacture a variety of high performance products for a broad range of micro and minicomputers. The products we offer include:

- Disk and tape controllers for Data General, Digital Equipment Corporation, and Perkin Elmer/Concurrent computers.
- High speed, 5 1/4" SCSI compatible RAMdisks.
- Spooling and networking products for PC based CAD systems.
- Disk, tape, and memory controllers, tape backup systems, memory and storage devices for Texas Instruments computers.
- Memory expansion products for Unix based computers including Altos, NCR, Unisys, Sun, AT&T, and Apple.

Special Thanks to our Acumen 1000 and 2000 Beta sites for all their help and insight:
Cybertek △ DMR △ Wild Hare Computing △ System Support

Acumen Advertising and Promotion

UnixWorld
Full Page Ads

6/88 - 9/88 –	"More Memory for Less Money"
10/88 - 4/89 –	"Focusing on Your Memory Needs"
5/89 –	"Examine Your Alternatives"

Altos World
1/4 Page Ads

2/89 - 5/89 –	"Money Saving Memory Solutions"
6/89 –	Look for our new ad!

Acumen Press and Publicity

Altos World, 2/89
UNIX Today!, 2/20/89
Computer Reseller News, 1/89

Trade Shows

UniForum 1989 in San Francisco proved to be a great success for all of our Acumen products for UNIX based computers. With the introduction of the Acumen 1000 and 2000 for Altos computers, new leads were generated – both VAR and end user. End user leads will be distributed through authorized Acumen Altos resellers. Call Western Automation for details.

Plans for UniForum 1990 in Washington D.C. are already in the works.

//Acumen
by Western Automation

For more information on Acumen memory boards for Altos Computers, please call :
Western Automation
1700 North 55th Street
Boulder, CO 80301
800-227-4637 or 303-449-6400
FAX (303) 939-8844

Announcing Acumen Service Centers

Western Automation is currently establishing a network of Acumen Service Centers across the country. Each Acumen Service Center (ASC) will service, repair or replace Acumen memory boards for Altos computers. To locate an ASC in your region call Western Automation at: (800) 227-4637.

NEW PRODUCTS FOR ALTOS SYSTEMS

AVAILABLE NOW

- **ACUMEN 1000** – Memory expansion boards for the Altos 386 Series 1000.
- **ACUMEN 2000** – Memory boards for the Altos 1086, 2086, 3086, 3068, & 386 Series 2000.

AVAILABLE 3RD QUARTER '89

- **ACUMEN 500** – Memory expansion boards for the Altos 386 Series 500.

Western Automation
1700 North 55th Street
Boulder, CO 80301 U.S.A.

DENVER, CO
APR 13
PM
1989

Bread Wagon 1880s
25 USA

Providing you with a new source for quality memory products.