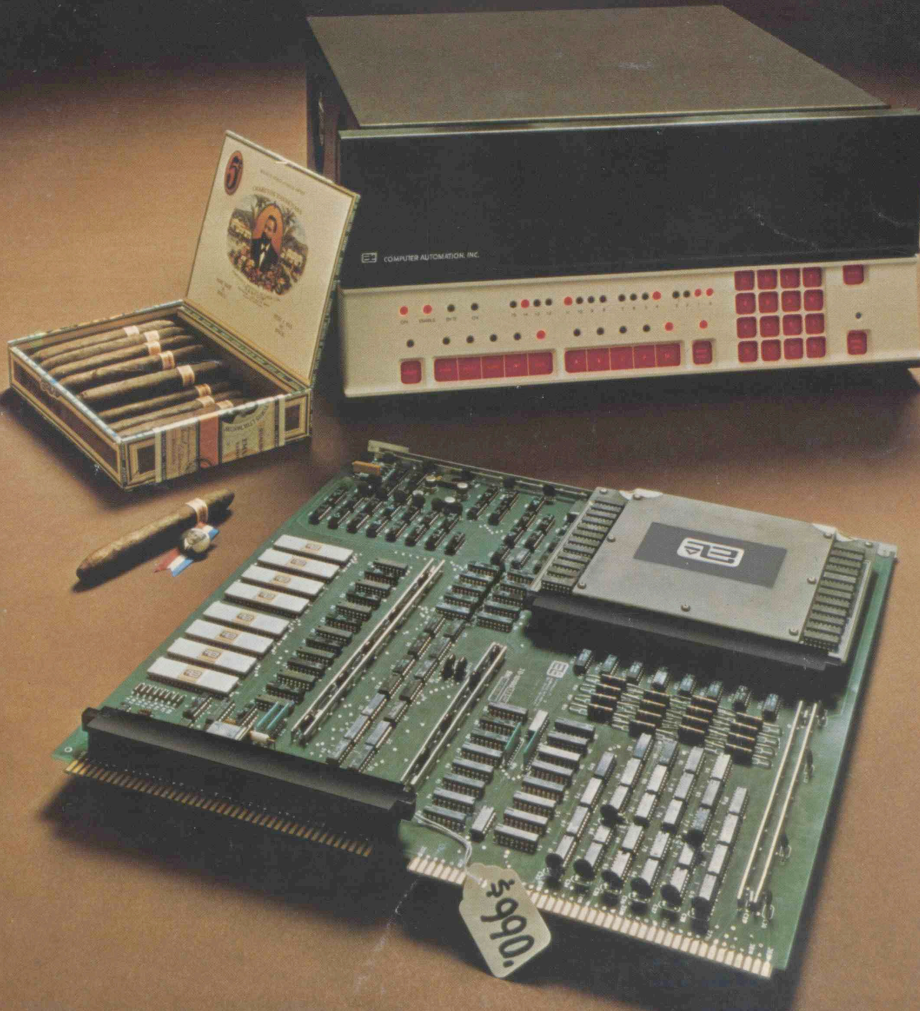
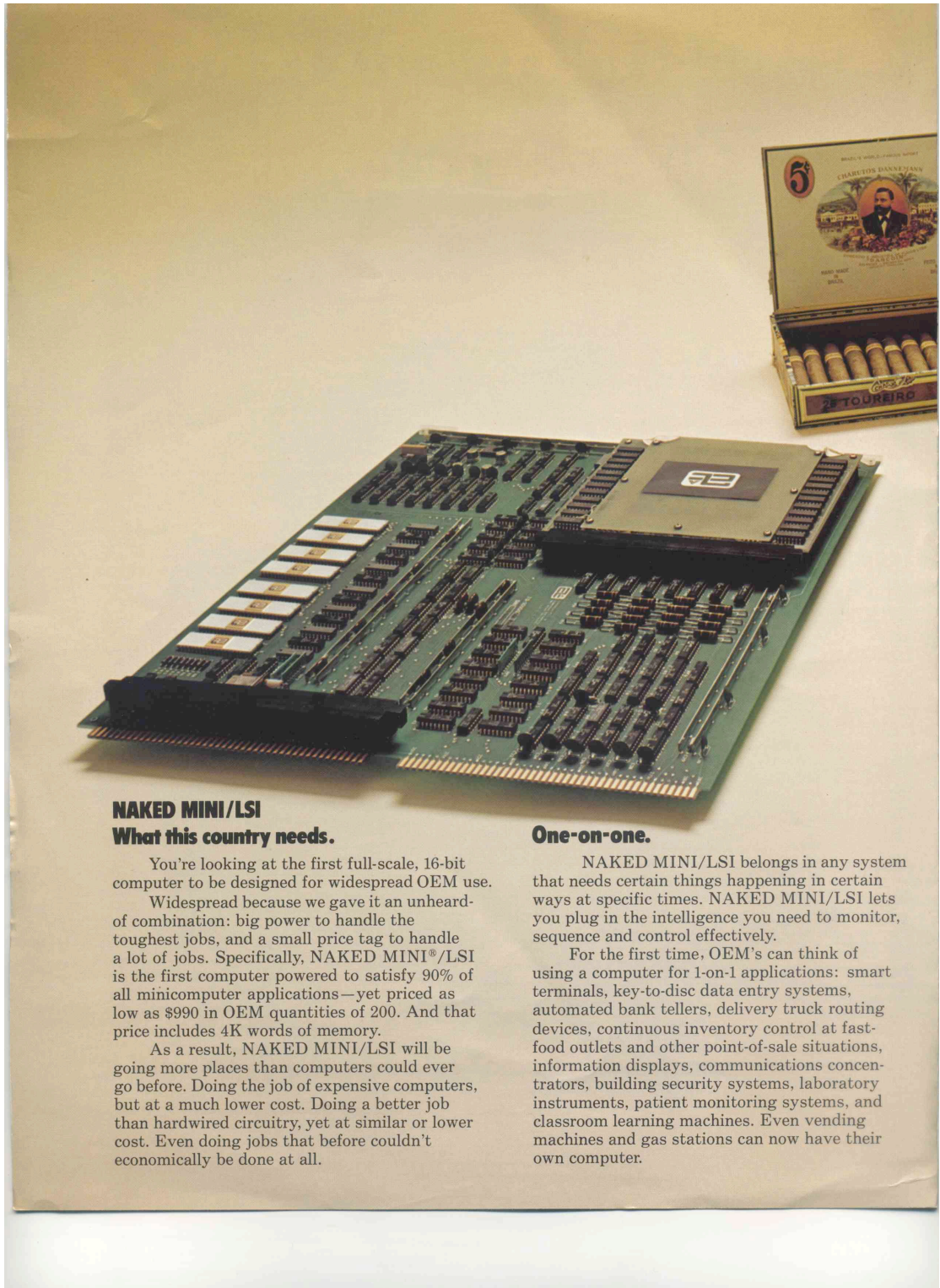


**What this country needs
is a good \$1,000
full-scale computer**



NAKED MINI[®]/LSI



NAKED MINI/LSI
What this country needs.

You're looking at the first full-scale, 16-bit computer to be designed for widespread OEM use.

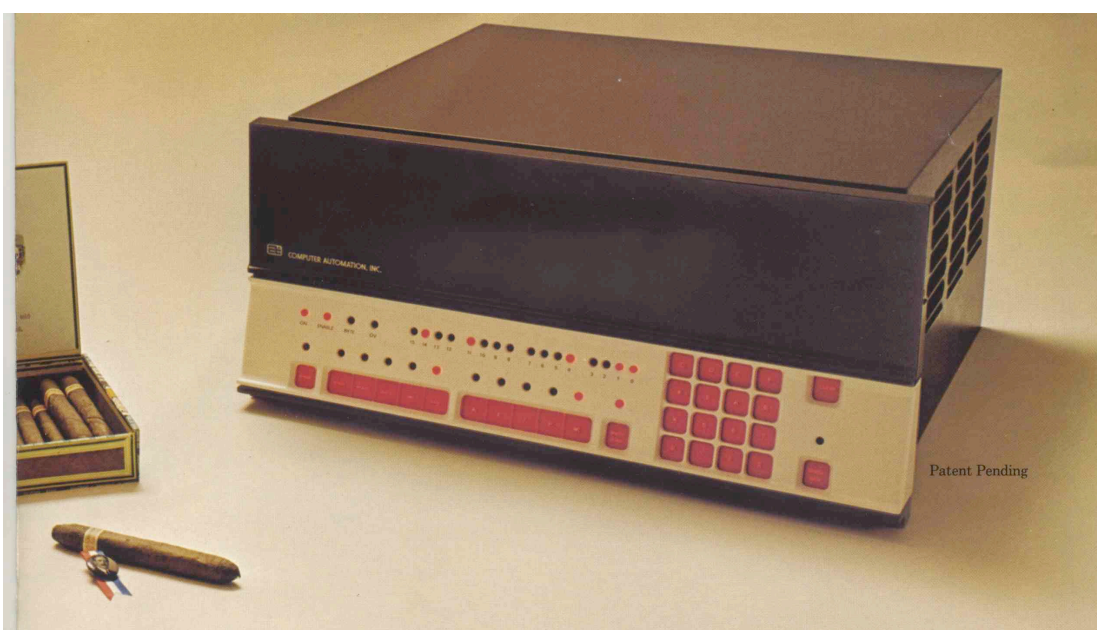
Widespread because we gave it an unheard-of combination: big power to handle the toughest jobs, and a small price tag to handle a lot of jobs. Specifically, NAKED MINI®/LSI is the first computer powered to satisfy 90% of all minicomputer applications—yet priced as low as \$990 in OEM quantities of 200. And that price includes 4K words of memory.

As a result, NAKED MINI/LSI will be going more places than computers could ever go before. Doing the job of expensive computers, but at a much lower cost. Doing a better job than hardwired circuitry, yet at similar or lower cost. Even doing jobs that before couldn't economically be done at all.

One-on-one.

NAKED MINI/LSI belongs in any system that needs certain things happening in certain ways at specific times. NAKED MINI/LSI lets you plug in the intelligence you need to monitor, sequence and control effectively.

For the first time, OEM's can think of using a computer for 1-on-1 applications: smart terminals, key-to-disc data entry systems, automated bank tellers, delivery truck routing devices, continuous inventory control at fast-food outlets and other point-of-sale situations, information displays, communications concentrators, building security systems, laboratory instruments, patient monitoring systems, and classroom learning machines. Even vending machines and gas stations can now have their own computer.



The head of the family: LSI-1.

Naked Mini/LSI-1 is a fully-operational 16-bit computer that measures 1"x15"x17" and weighs 4 lbs. The 7-chip MOS/LSI processor, memory, DMA, and full instruction set are all on a single card. There's no need for a chassis or motherboard, even to accommodate up to 8K of memory and all of the most common options.

It's truly the computer that's a component. To use it, just plug it into one connector in your product. It's powered by your existing system supply.

The faster of the family: LSI-2.

LSI-2 uses the same family design as the LSI-1, but runs faster. For example, it can execute a full word multiply (a standard hardware feature in both processors) in less than 15 microseconds.

Except for its greater speed, the LSI-2 is completely compatible with the LSI-1. This means that user programs run correctly in either processor, and one can be substituted for the other without program changes.

Any combination of memories in any mix of types and speeds can be used with either processor. This means the user can configure exactly the combination which best suits his needs now, and later change the combination to meet new needs merely by exchanging or adding the appropriate processor or memory boards.

ALPHA/LSI

If you need either the NAKED MINI/LSI-1 or LSI-2 installed in its own fully-encased mainframe chassis, we can do that too. It's called ALPHA/LSI-1 or ALPHA/LSI-2, and includes power supply, a control console with a new hexadecimal data input keyboard, and LED binary displays. It can be easily expanded to 256 K words of 16-bit memory. And as many peripheral controllers and special-purpose interfaces as you need.

Why we did it: The Great OEM Gap.

Other minicomputer companies don't understand the OEM. They're too busy building end user systems with lots of peripherals, special features and more speed and software than the job needs right now.

We, on the other hand fill the gap. Because we specialize in the design and manufacture of OEM computers. And we're the only ones who do. Our computers are high quality, reliable and most important, low priced. And we don't cut corners. By designing strictly for OEM's and selling in volume, our costs are lower all the way down the line.

We don't try to cover everything. That's why we're the NAKED MINI Company.

Specifications.

Memory

Word Size: 16 bits/word
 Memory Size: 1,024 to 262,144 words
 Addressing: Both word and byte
 Memory Parity: Available option which adds one bit per byte

Functional

Instructions: 168 distinct basic instructions, plus many variations through address modes
 Index Register: Standard
 Indirect Addressing: Multi-level
 Instruction Format: Single word for almost all instructions
 Direct Addressing: 768 words or bytes
 Indirect Addressing: 32,768 words or 65,536 bytes
 Power Fail Restart: Available option
 Real Time Clock: Available option
 Autoload: Available option

Physical

Dimensions:

	H	W	D
NAKED MINI/LSI-1:	1.5"	15.0"	16.9"
/LSI-2:	8.7"	19.5"	18.5"
ALPHA LSI-1 & 2:	8.7"	19.5"	19.6"

Weight:

NAKED MINI/LSI-1: 7.5 lbs., with full complement of options
 /LSI-2: 29.0 lbs., with full complement of options
 ALPHA/LSI-1: 66.5 lbs., with full complement of options, power supply, and panel
 /LSI-2: 67.0 lbs., as above

Input/Output

	LSI-1 with memory speed of			LSI-2 with memory speed of		
	980	1200	1600	980	1200	1600
I/O Transfer Rates (words/bytes/sec)						
DMA (std)	1,020,000	833,000	625,000	1,020,000	833,000	625,000
DMA (Interleaved)	1,666,000	1,429,000	1,250,000	1,666,000	1,429,000	1,250,000
Block I/O (std)	131,000	131,000	131,000	411,000	408,000	400,000
Programmed I/O (Std; via registers)	34,000	34,000	34,000	130,000	125,000	112,000
Programmed I/O (Std; direct to memory)	24,000	24,000	24,000	90,000	83,000	70,000
Direct Memory Channels (Std; multiple device capability without multiplexer); total	26,000	26,000	26,000	80,000	73,000	62,000

Conditional I/O: Standard
 Maximum number of I/O devices addressable: 248
 I/O Word Length: 8 and 16 bits
 Priority Levels: 5 standard (2 internal; 3 external)
 Interrupts: Fully vectored; 6 standard; additional provided by all standard I/O options

Environmental

Temperature: 0° to 50°C
 Humidity: 90% (non-condensing)

Software

Real Time Executive (RTX) includes modular Input/Output (IOX) and Communications (COMX) subsystems
 Disc Operating System
 Magnetic Tape Operating System
 Cassette Operating System
 BASIC: Advanced, Extended and Multi-User versions
 FORTRAN
 Conversational Assembler in addition to standard batch Assembler
 Utility and Library programs
 Quality Control Diagnostic (QCD) programs
 File Managers
 360 Cross Assembler

All specifications subject to change without notice.

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