

MAGNUSON COMPUTER SYSTEMS M80/31 AND M80/32:



BETTER THAN THE 4331 GROUP 2,
ANY WAY YOU MEASURE IT

The M80/31 and M80/32: capability for capability, the superior alternative to the 4331-2.



**DOLLAR FOR DOLLAR, FEATURE FOR FEATURE,
MAGNUSON'S M80/31 AND M80/32 OFFER
IMPRESSIVE ADVANTAGES OVER THE 4331-2.
COMPARE THE FACTS.**

Design Philosophy

Magnuson's *Strategic Architecture* eliminates traditional "dead investments" in hardware and software, putting the user in control of his computer system and its growth.

Software Support and Compatibility

The M80/31 and M80/32 support more operating systems than the 4331-2. And through special microcode emulation, they'll run any system control program that will run on the 4331-2. Plus some that won't.

Upgradability for Sensible Growth

Magnuson offers a practical, cost-effective growth path through a completely compatible product line that avoids obsolescence.

Ease of Expansion

Field upgradability is fundamental with the M80/31 and M80/32. When you're ready to expand or upgrade the system, Magnuson's ready. Quickly, economically, and on-site.

Service

Magnuson's nationwide service organization is highly trained in both hardware and software troubleshooting. And because all Magnuson systems offer outstanding self-diagnostics, problems are quickly isolated and board replacement easily accomplished. Ask our customers.

Price/Performance

In computing value, the M80/31 and M80/32 clearly surpass the 4331-2.

Efficiency

The M80/31 and M80/32 occupy less space than the 4331-2.

MEASURE FOR MEASURE, MAGNUSON PROVIDE MORE USER BENEFITS

Design Philosophy

The Magnuson approach, *Strategic Architecture*, is more than a design concept. It's the basic principle that has guided Magnuson in creating computers that are more tailored to user benefits than other systems.

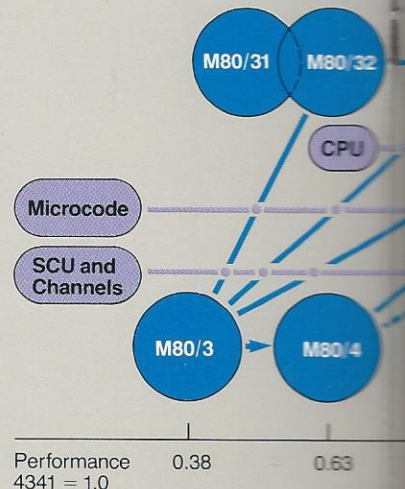
Because Magnuson uses a bus architecture, functionally independent modules can be tied to a system quickly, cost-effectively, and without the unnecessary complexity inherent in other systems. This means existing installed hardware and personnel training investments are protected, even when application requirements demand a larger system.

Software Support and Compatibility

The M80/31 and M80/32 run both 370 and native versions of DOS/VSE, as well as MVS. They run operating systems, too—like DOS and DOS/VS—that IBM doesn't support on the 4331-2.

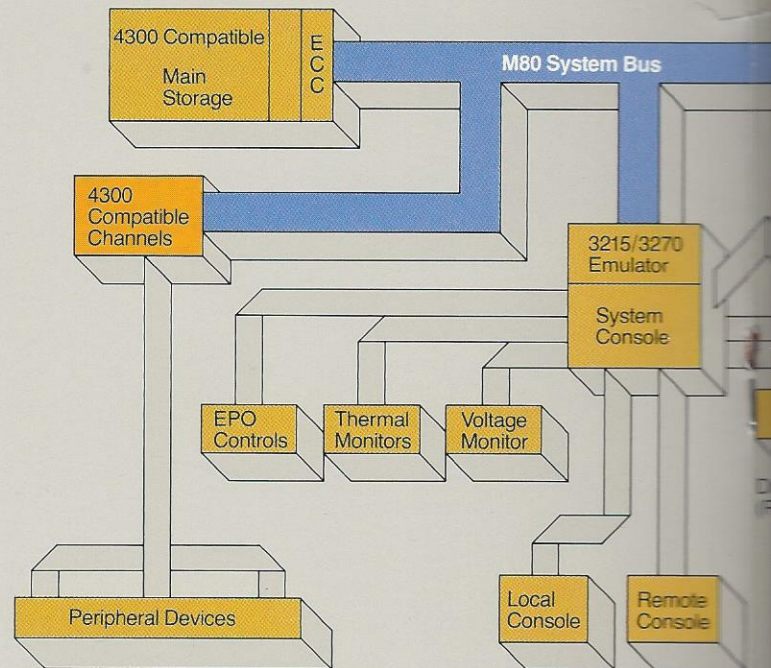
There's more. Magnuson computer systems also support all releases of VS1 and VM370. IBM doesn't on the 4331-2. This means all of your existing application software will run on an M80/31 or M80/32.

The M80/31 and M80/32 use firmware to emulate the IBM instruction set. So if IBM adds a function, Magnuson simply emulates it in microcode. This means you'll always be able to use the latest software features offered by IBM or third party vendors.



M80 UPGRADE PATHS

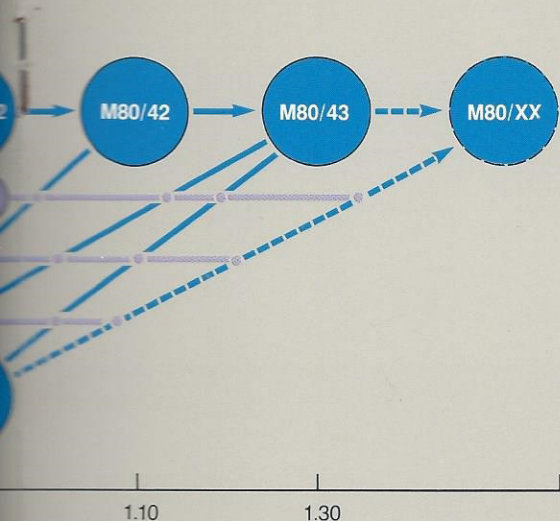
The M80 family provides for sensible, with a variety of options designed to



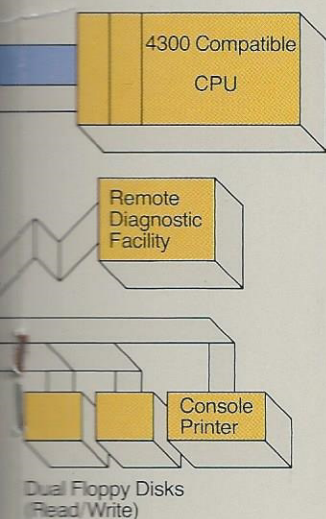
M80/31/32

Magnuson's Strategic Architecture allows for easy and fast expansion and maximum system uptime.

MAGNUSON'S M80/31 AND M80/32 OFFER MORE BENEFITS THAN THE 4331-2.



Simple, manageable system growth,
to meet changing needs.



Simple, on-site replacement of printed circuit boards is all that's required to achieve increased performance from an M80 system.

Upgradability for Sensible Growth

The M80/31 and M80/32 offer a controlled growth path, designed to meet a company's changing requirements. When it's time to upgrade, Magnuson provides the M80/42 and M80/43 systems for full, 303X-level capabilities. And replacing existing hardware or software won't be necessary.

Not so with the 4331-2. If a user needs capabilities beyond what it offers, migration to an entirely new system is required. That results in a larger capital expenditure, accompanied by the inconveniences of replacing old hardware, performing time-consuming software conversions, and training personnel on the new system.

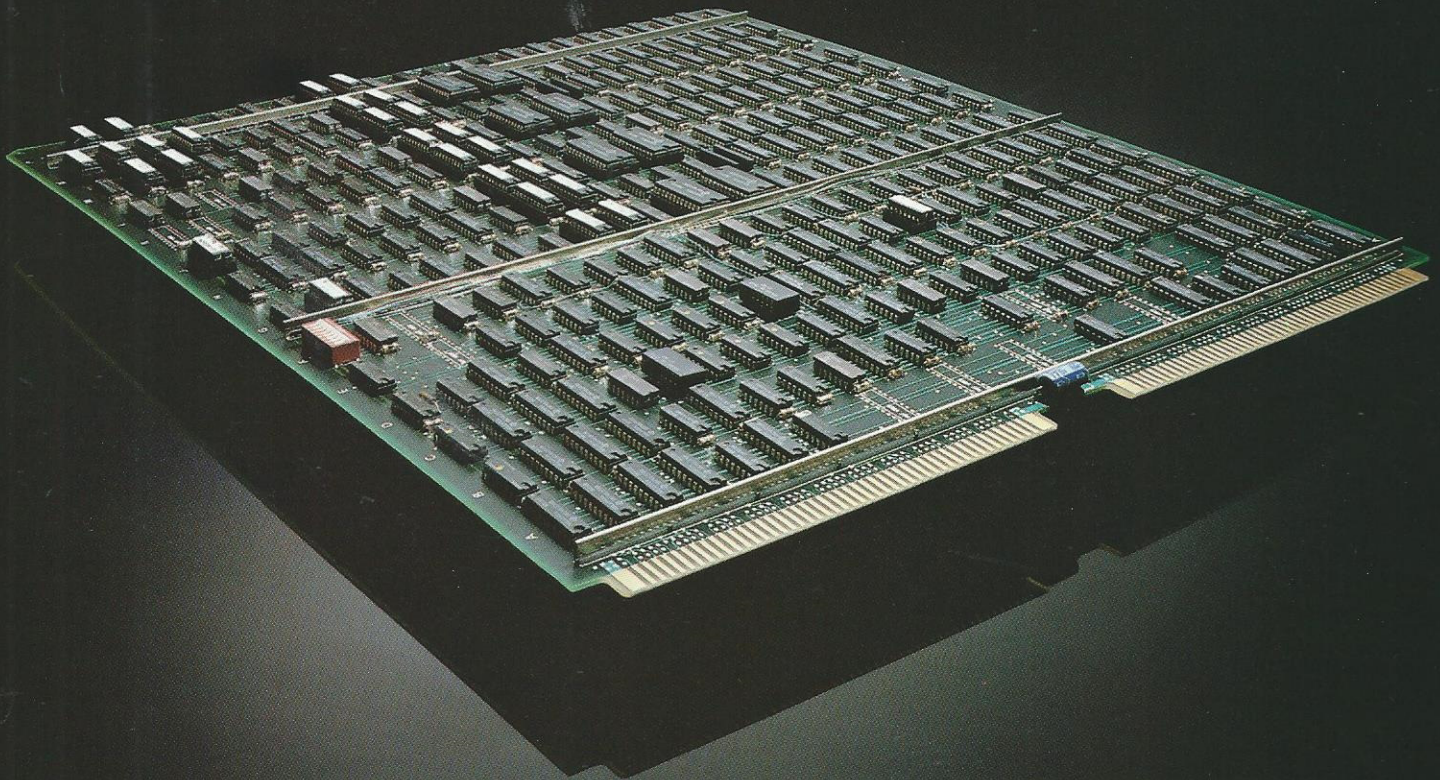
Ease of Expansion

Magnuson has always offered computer systems that could be expanded and upgraded in the field. The M80/31 and M80/32 can be modified on-site—as your needs grow—without disrupting your day-to-day activities. That's because of the structural and functional modularity of all M80 systems. Whether it's an upgrade in power, or the addition of memory or channels, Magnuson adds the new boards far more quickly and at far less cost than other alternatives.

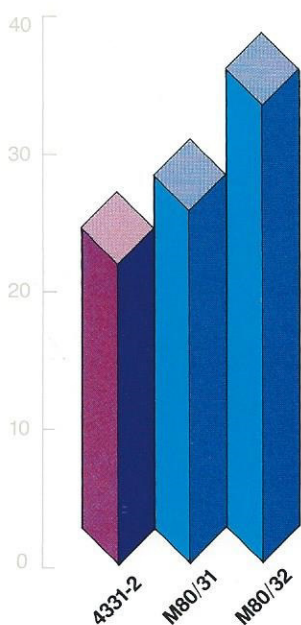




The comprehensive self-diagnostics of Magnuson computer systems, displayed on the console screen, allow fast fault isolation. Most service calls simply require board replacement to put the user back online.



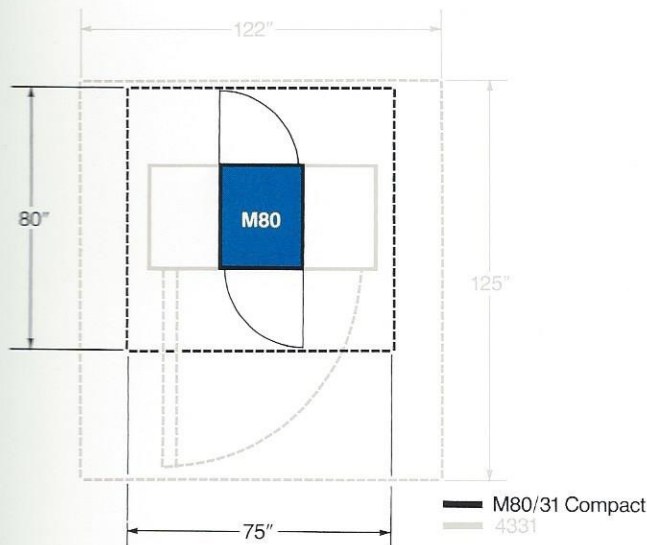
CAPABILITY FOR CAPABILITY, MAGNUSON'S M80/31 AND M80/32 GIVE YOU MORE—FOR LESS—THAN THE 4331-2.



Relative Throughput
(158-3 = 45)

PERFORMANCE COMPARISONS

The M80/31 and M80/32. More... for less.



M80/31-COMPACT VS. 4331

Magnuson's thoughtful design of M80 systems provides for an economy of energy and space. For example, the M80/31 in compact configuration occupies a remarkable 70% less floor space than the 4331-2.

Service

Because Magnuson builds comprehensive self-diagnostics into all its systems, isolating a problem takes minimal time. Once it's identified, the Magnuson field engineer replaces the appropriate board, and you're back in business. This method of servicing the computer—at the board level—assures maximum system uptime, as well as ease of system maintainability. And Magnuson's nationwide field service force is highly skilled, responsive, and ready to help with any system hardware or software problem.

Price/Performance

Value-conscious users are quick to recognize the economy and unique capabilities of the M80/31 and M80/32.

Measure the M80/31. At a purchase price that's as much as 20 percent below the 4331-2, it offers as much as 120 percent the performance.

Measure the M80/32. For about the same price as the 4331-2, it delivers 150 percent the performance.

Efficiency

The rising cost of office space makes system efficiency an increasingly important consideration. Magnuson computer systems are smaller than comparable IBM systems. The M80/31 and M80/32 in standard configuration take less than half the floor space required for a 4331-2. The M80/31 in compact configuration is even more space-efficient.

THE M80/31 AND M80/32: BETTER... ANY WAY YOU MEASURE IT

Design philosophy. Software support and compatibility. Upgradability for sensible growth. Ease of expansion. Service. Price/performance. Efficiency.

Impressive advantages IBM's 4331-2 just can't measure up to.

Experience added value that keeps on growing.

EXPERIENCE THE MAGNUSON DIFFERENCE.



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