Things change — technologies evolve. New discoveries in science and technology are developed and then perfected. And if industry is to apply these brave new technologies, and if productivity is to continue to increase, then the tools of industry must evolve as well in a planned and timely manner.

One of the most powerful and cost effective tools of modern industry is the STD Bus microcomputer. An STD Bus microcomputer based on the industry standard Z80 8-bit CPU is extremely flexible and compact. Expansion or reconfiguration to meet any requirement is simple and economical. Thousands of boards from hundreds of manufacturers eliminate single sourcing problems and ensure that every need is supported. The STD Bus microcomputer is clearly the right tool for the job.

The essence of a microcomputer system, its power and utility, is located in the boards installed on the bus and not in the bus itself. The bus is not the end, but simply a means to an end. Therefore, high performance boards yield high performance systems.

COLEX delivers high performance microcomputer boards and systems based on the Z80 microprocessor and the STD Bus. Now. They are proven and they are cost effective.

That is the way it has been, that is the way it is, and that is the way it will be in the future. But what about the future? What about the time when the needs of industry reach beyond the abilities of an 8-bit machine?

A 16/32-bit machine. For the STD Bus? Naturally, From COLEX.

COLEX has a PLAN. To protect your investment, the COLEX plan is a MIGRATION PATH designed to ease the STD Bus user operating in the 8-bit here and now into the 16/32-bit future. Painlessly.

The COLEX MIGRATION PATH provides a planned, orderly, and cost effective method of upgrading existing 8-bit STD Bus systems to the power and versatility of 16/32-bit processors and software, meeting the challenges of the future.

But it's more than just a plan. It's a reality. The STD Bus HARDWARE, SOFTWARE, and SYSTEMS for the future are here today — from COLEX. And one day, you're going to need them.

Today COLEX offers a complete STD Bus product family including the popular Z80 and the powerful 68000 CPUs, memory cards with 64, 128, and 256 K bytes DRAM, and a wide range of I/O cards supporting terminals, printers, floppy disks, rigid disks, and communications interfaces. COLEX provides design flexibility allowing custom solutions with standard boards.

COLEX links the present with the future with the STD-68000 central processing card. As a result of the on-board microsequencer, this 16/32-bit super CPU card can be installed in any existing STD Bus system where it will drive the bus as well as all existing boards and Z80 peripherals.

This board was designed specifically as a bridge into the future and provides the means for STD Bus users to gain access to the 16/32-bit hardware AND software world. All this without sacrificing the existing 8-bit system.
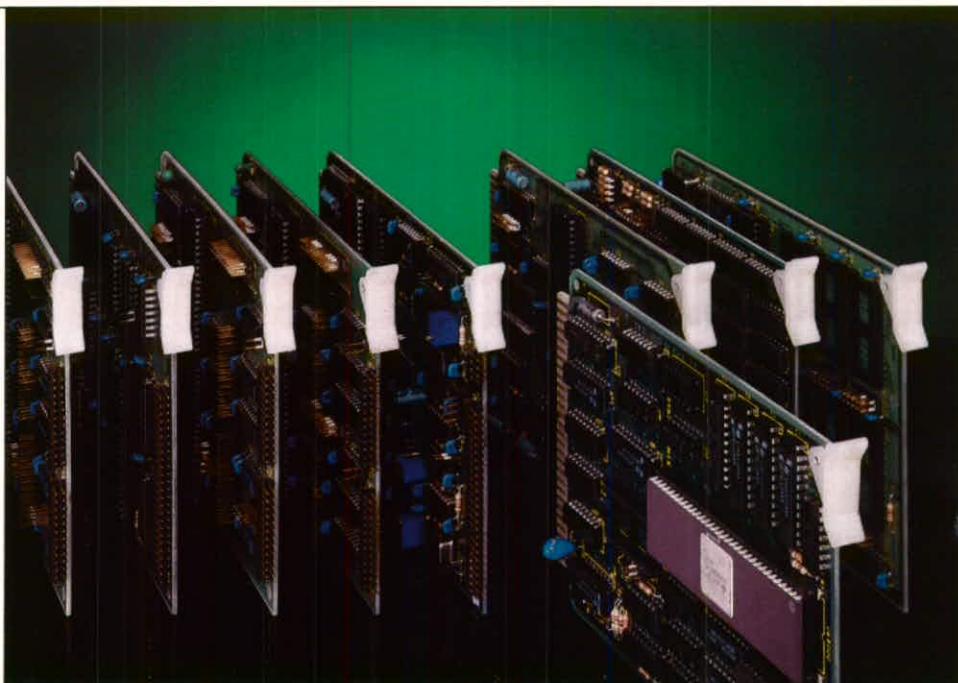
Furthermore, it runs the industry standard operating system for 16/32-bit machines, UNIX™, which provides powerful mainframe operating system features such as multi-tasking and multi-lingual capabilities. And with the STD-SLAVE coprocessor card, multiple users are supported.

If the challenges of the future are to be successfully and profitably met, if existing production is to be more efficiently supported, then the technology and tools of science and industry must incorporate the new technologies of the future.

And the COLEX STD-68000 is the bridge into the 16/32-bit future for the STD Bus.

COLEX also protects your investment in software. Just as the COLEX MIGRATION PATH eliminates the need to scrap existing hardware to implement the move into the 16/32-bit future, the need to scrap existing software is eliminated as well. A significant portion of the total computer system cost is software. And what happens to this investment when you move into the future? It continues to be used just as it always was, except faster. And better.

COLEX supports industry standard high performance operating systems for both 8-bit processors and 16/32-bit machines.

The acknowledged leader in the Z80 8-bit world is CP/M Plus™. This comprehensive operating system sup-

ports banked RAM, rigid disks, and sophisticated programmer utilities. Upward compatibility has been maintained between all members of the CP/M family (CP/M 2.2, MP/M II™, etc.) and CP/M Plus, thus preserving the integrity of familiar and proven CP/M applications packages. They are in use throughout industry and have become powerful, widely used, versatile, and cost effective tools.

COLEX provides the industry standard operating system for 16/32-bit machines, UNIX. This UNIX is specially configured for the STD-68000 and features multi-tasking and multi-lingual support. Many powerful and easy to use

general purpose high level languages as well as sophisticated development tools are supported by UNIX. And what do these two industry standard operating systems have in common? MIMIX™ MIMIX is a software or software/hardware resident Z80 emulator available to run under UNIX in the STD-68000. MIMIX appears to the CPU as a UNIX applications program, and all existing CP/M applications programs and data files operate normally in the UNIX environment.

The best of both worlds is now available — access to existing CP/M programs and data, and the speed and power of a 68000 based UNIX machine. Your software investment is protected. Your productivity is increased.
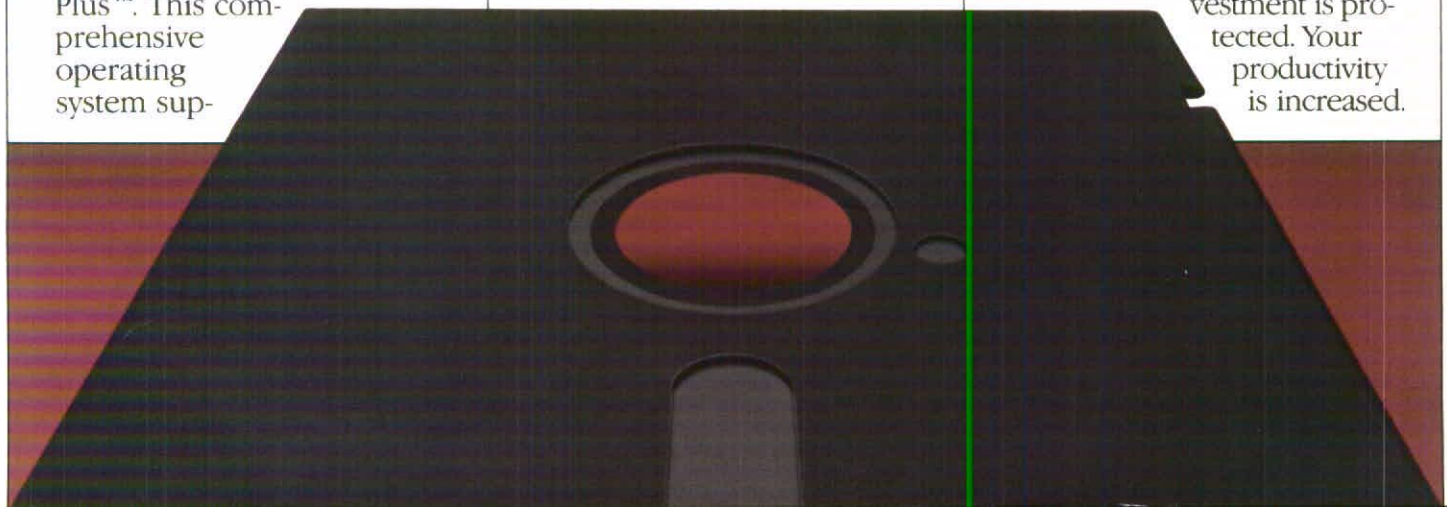
The COLEX STD Bus microcomputer provides custom solutions using standard system components. It is a flexible STD Bus OEM microcomputer family which can be customized to provide increasing levels of performance to support diverse applications. Upgrading or reconfiguring is simply a matter of exchanging system components.

As a development system, it allows design, prototyping, testing, and implementation to take place in the same package. Besides being a particularly cost effective arrangement, the reduction in development time and higher confidence levels are very real benefits.

The COLEX 820 is a Z80, dual floppy based STD-Bus system. If additional system memory is required, add more memory cards; if additional I/O capability is needed, install more I/O cards. Need a CRT controller/keyboard interface? Add that card, too. If the mass storage capabilities of the 820 are outgrown, the simple addition of a 10 M byte rigid disk creates the 850.

The addition of a STD-68000 board brings the advantages of a 68000 CPU to the user, creating the COLEX 3250. In the original box. And it retains and uses all the existing memory, I/O cards, mass storage, and peripherals. And software.

The COLEX family of microcomputer products never really changes on the outside. It becomes a more powerful computer by changing the inside. So instead of buying a computer system you'll grow into someday, COLEX microcomputers fit TODAY. And tomorrow. And on into the future.

As your needs evolve, so does COLEX.