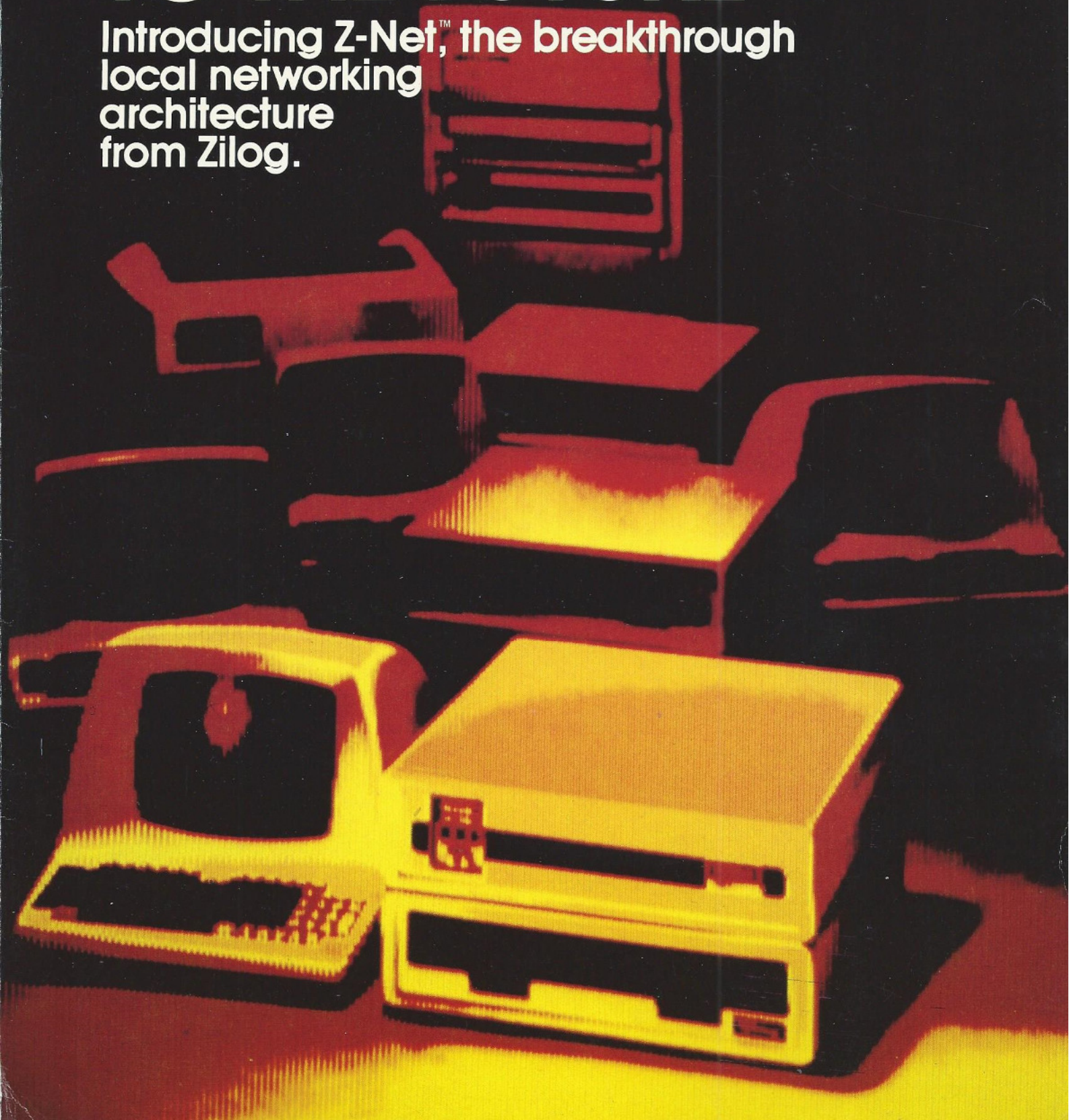


# YOUR GATEWAY TO THE FUTURE



Introducing Z-Net™, the breakthrough  
local networking  
architecture  
from Zilog.



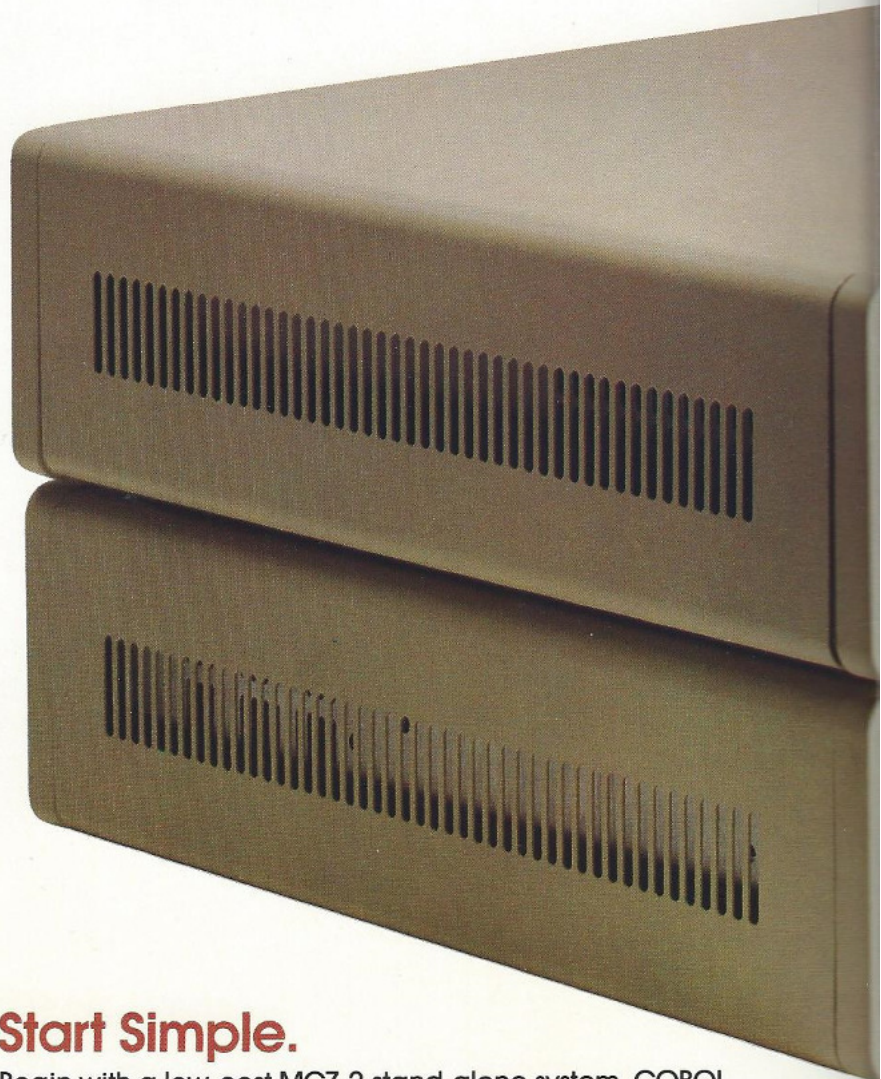


# YOUR GATEWAY TO THE FUTURE

Now there's an exciting, low risk approach to growth for commercial data processing applications. Zilog's advanced Z-Net™ systems architecture lets you start small. Grow big. Grow in almost any direction: multiple users, multiple functions. Change and rearrange as your needs change. Correct planning errors with little or no penalty. Your investment in hardware—and software—protected at every step.

Grow in new directions, too. Add almost any kind of digital device. Have devices talk to computers. Computers talk to computers. And everybody talks to shared data.

Automate your office. Send electronic mail. Create hybrid systems of every kind. Open the gateway to almost any future you can imagine. All at a price that makes it practical.



## Start Simple.

Begin with a low-cost MCZ-2 stand-alone system. COBOL- and BASIC-oriented; with a broad range of peripheral and option choices, it lets you custom-tailor the system you need to fit your requirements for general business, accounting, data entry, text processing—just about any dedicated commercial application you can think of.



## Grow at your own pace.

Because the necessary software and hardware interfaces are designed-in to your MCZ-2 computer, you can expand your single computer into a Z-Net local computer network at any time. It lets you add users, applications and functions without changes in either

your existing equipment or your software.

It also lets you expand in a way that makes maximum use of your budget. The low-cost CPU's and memories can be put where they are needed. Your expensive data base and electro-mechanical devices like disks and printers can be shared.

## What's in a Z-Net system?

The Z-Net local computer network is composed of two basic elements, hardware and software.

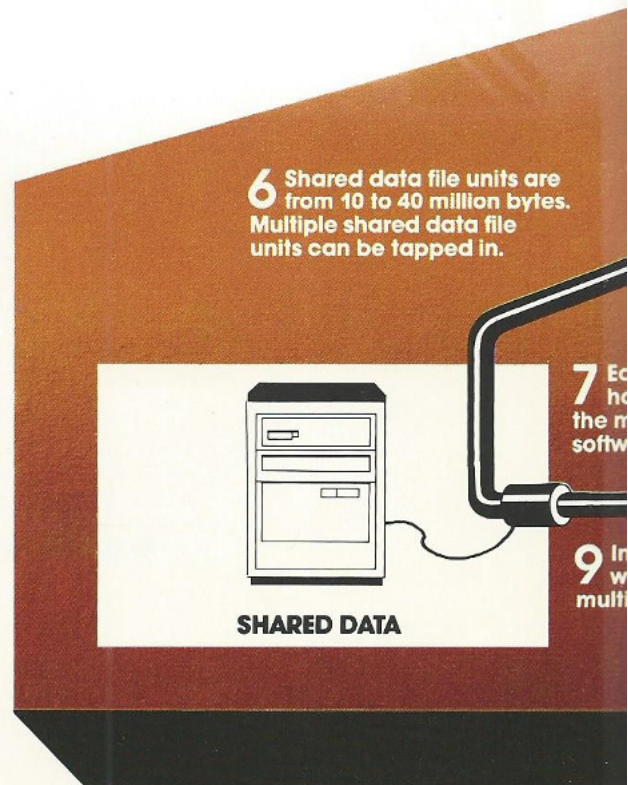
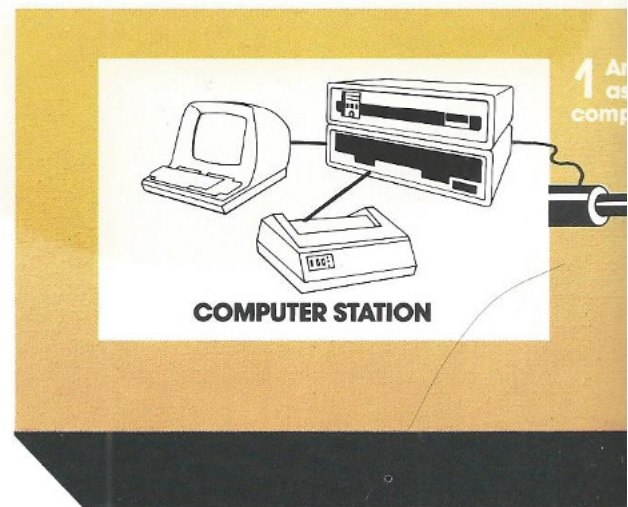
MCZ-2 computers are the "brains" of the network. The shared data file units are the collective "memory." The physical link for



## How much can you grow?

A single Z-Net system can handle one, ten, a hundred or more MCZ-2 computers or shared data file units

(maximum 255). Units can be placed anywhere along a 2 kilometer communications path. That's well over a mile. You can deploy MCZ-2 computers where the work is, at the next desk, in the next office, or on the next floor. Since all units can communicate with each other and with shared data, the total power of the system grows with each unit that's added.



6 Shared data file units are from 10 to 40 million bytes. Multiple shared data file units can be tapped in.

7 Each unit has the network software

9 In a multi...



these elements is standard "cable TV" coaxial cable. Simple "T" tap lets users tap in and tap out of the network, at will, with no effect on the system's operations. Transceivers, placed between the tap and computing element, are used to pass data in and out, functioning somewhat like a combination "modem" and a

"radio transmitter/receiver." A transceiver interface is part of every MCZ-2 computer and shared data file unit.

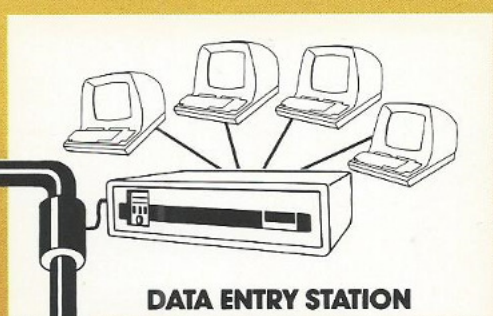
The real strength of the Z-Net local computer network comes from its powerful software. At the heart of every MCZ-2 computer is a unique multitasking Kernel that has been specifically designed

to manage communication between the unit it is in and any other MCZ-2 system or shared data file unit in the network.

As an integral part of the operating system design, this communications function is managed independently of, and "unknown" to, whatever application is running on the system.

1 MCZ-2 system can serve the start of your Z-Net local computer network.

2 Due to the MCZ-2 multitasking operating system, complex network applications can be developed using only one MCZ-2 system, not a whole network!



3 Communication on the network is at 800,000 bits/second. Every station can talk directly to any other station or shared storage unit.

5 Network computer stations (MCZ-2's) and shared data file units are linked by standard RG-59 coaxial (cable TV) cable up to two kilometers in total length. Up to 255 total stations and shared data file units are possible.

4 Each MCZ-2 system on the network is independent. Each can be doing its own application in the high level language (COBOL, BASIC or PLZ) best suited to it.

6 Each shared data file unit has a dedicated processor running multiuser file system software.

8 Z-Net is a passive system. If one unit on the network goes down, the rest of the system keeps running. Downtime is minimal—and non-traumatic.



9 Initial cost is lower than traditional, centralized, multiuser computer systems.

10 Using a remote data communication facility (Zilog provides 2780/3780 or TTY emulation) Z-Net systems can connect to larger, global networks.



**Low-cost software development.** MCZ-2 systems' powerful, easy to use operating system, file system, high level languages and many utilities plus good user-oriented documentation speed development and maintenance.

**Service where you need it.** Hardware service is available throughout the continental U.S. And around the world wherever Zilog products are sold.

**Tested—then tested again.** All components are 100% inspected. All systems accumulate 96 hours of high temperature burn-in testing.

**Move on up.** The MCZ-2 Series is operating system, file system, and assembly language compatible at the user interface level with the MCZ-1 Series. And, of course, portability is one of the things high level languages like COBOL and BASIC make possible.

**Your money goes farther.** When you look at the total cost of getting your job done, it's hard to beat the Zilog MCZ-2 Series. And, as you'll see on the inside pages, when it comes to expanding to meet multiuser needs, nobody does it better.



Multitasking/Concurrent Processing

Double-sided, double density, soft-sectored floppy disks

4-MHz Z80A microprocessors in both the CPU and the intelligent floppy disk system

COBOL, BASIC and Zilog's Pascal-like PLZ system implementation language

Text processing package

Five serial ports and one parallel port for I/O device connection

Remote data communications—Async TTY and Bisync 2780/3780 emulation

And, the interface for the Z-Net local computer network

## MCZ 2/20.

An attractive table-top, floppy disk system designed around the 4-MHz Z80A microprocessor. Modular... pick the hardware and software you need to build a system for your specific applications.

## MCZ 2/25.

The rack-mountable version. All the features and options of the MCZ 2/20 in a unit designed for integration into other systems.

## MCZ 2/50.

The complete, ready to run, single-vendor system for general business applications. It includes an MCZ 2/20 with 2 MB of floppy disk storage, a 1920-character CRT, Zilog's RIO/CP™ (Concurrent Processing) operating system, file system, system development utilities and single or multiterminal COBOL runtime support. A choice of printer options is available to round it out.



# TO OPEN THE GATEWAY TO YOUR FUTURE, CALL THE ZILOG OFFICE NEAREST YOU TODAY.

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**Zilog**



Zilog is a world leader in micro-computer development and manufacture. Zilog's hardware leadership is augmented by a program of advanced micro-computer software development designed to give Zilog customers the tools they need to obtain maximum value from Zilog products.

An affiliate of Exxon Enterprises Inc, Zilog is headquartered in Cupertino, California. Additional production facilities are located in Nampa, Idaho and in the Philippines. Zilog has a worldwide network of sales offices, representatives, and distributors.