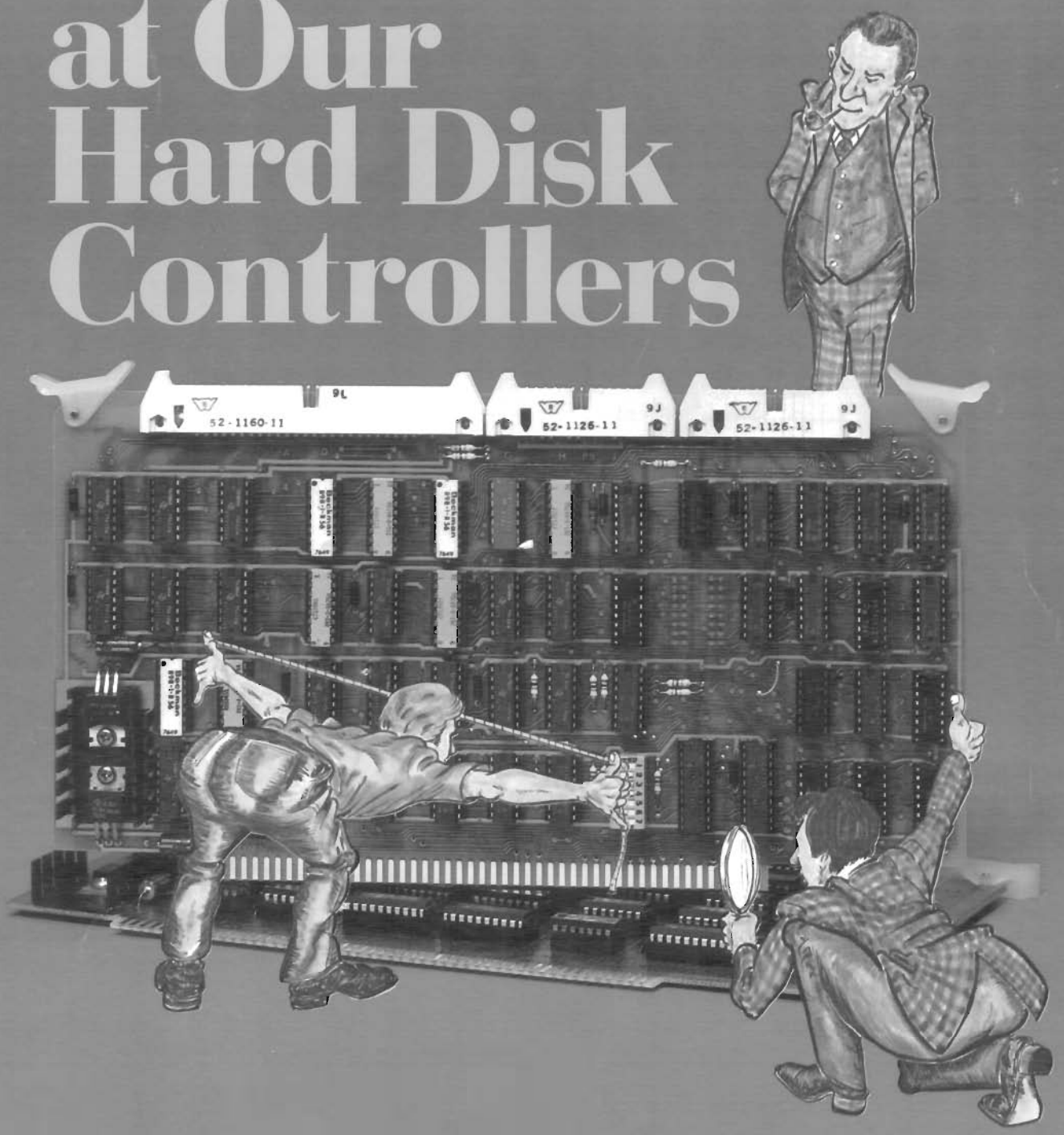
Take a Hard Look at Our Hard Disk Controllers



XCOMP Hard Disk Controllers Make Hard Disk Easy

- **Complete controller line for all popular drives.**
- **Custom microprogrammable processor provides high performance.**
- **Feature multibank writable control memory for ultimate flexibility.**
- **Maximum data integrity is maintained with a separate header field.**
- **Support software available for popular operating systems.**
- **Fault isolation software for controller testing runs on host computer.**
- **Compact design utilizes two standard S100 PC boards.**

BIG POWER, SMALL PACKAGE

XCOMP hard disk controllers feature great operating power in a compact, two S100 PC board package. The microprogrammed data board is common to all controllers and operates with a second drive interface board. They efficiently control a wide variety of drives including the following interfaces:

- SMD (Storage Module Drive)
- 5440 or 2315 cartridge
- ANSI disk bus
- Shugart SA-1000
- Shugart Technology ST-500

Additional interfaces can also be accommodated.

CUSTOM PROCESSOR GIVES YOU HIGH PERFORMANCE

The key to the XCOMP controller is its custom microprogrammable processor which controls data transfers. Custom microcode, provided by XCOMP, is stored in writable control memory to accommodate specific drives. This approach generates three major advantages: easy adaptation to a myriad of drives by changing only the I/O driver software, simplified testing of the controller by fault isolation software run on the host computer, and very high performance.

Note: CP/M and MP/M are registered trademarks of Digital Research, Inc.

DATA SECURITY ASSURED

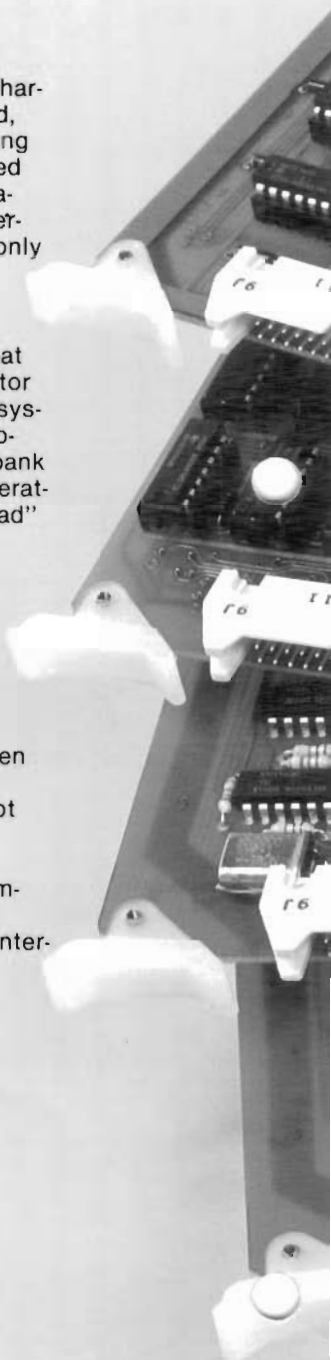
A sector format of separate header and data fields is used, each having sync and check characters. By testing the header for correct head, cylinder and sector before Reading and Writing on the data area, total data security is assured without time-consuming separate Read operations to determine correct head position. Average Read or Write operation latency time is only one-half revolution.

DESIGN ENHANCES PERFORMANCE

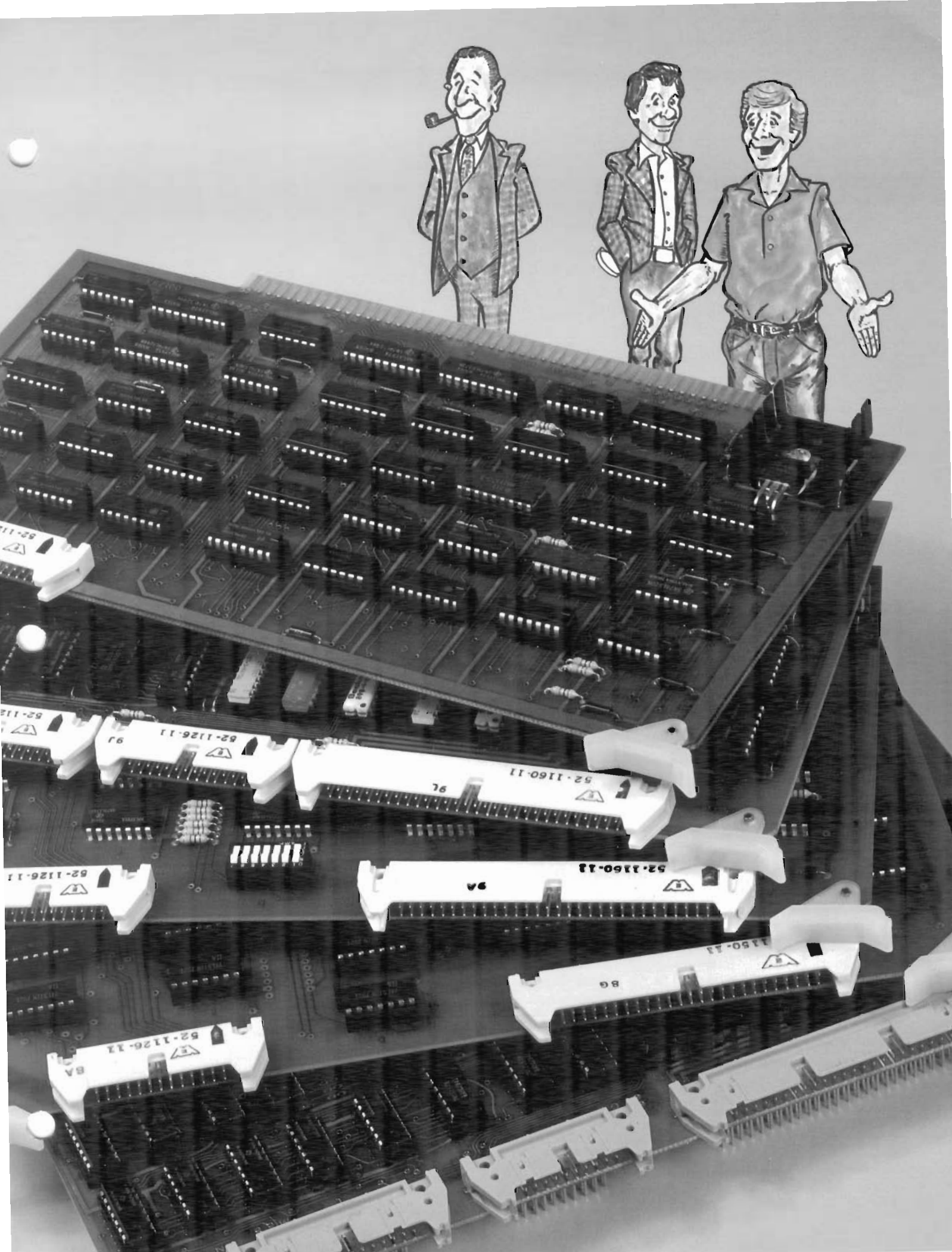
These controllers use a 256 byte sector format and have a full sector buffer. The logical sector format allows interleaving which maximizes system performance. The design eliminates problems with interrupt response time and with bank switch systems under CP/M® and MP/M® operating systems. The buffer is used in "look ahead" mode for increased system performance.

SPECIFICATIONS

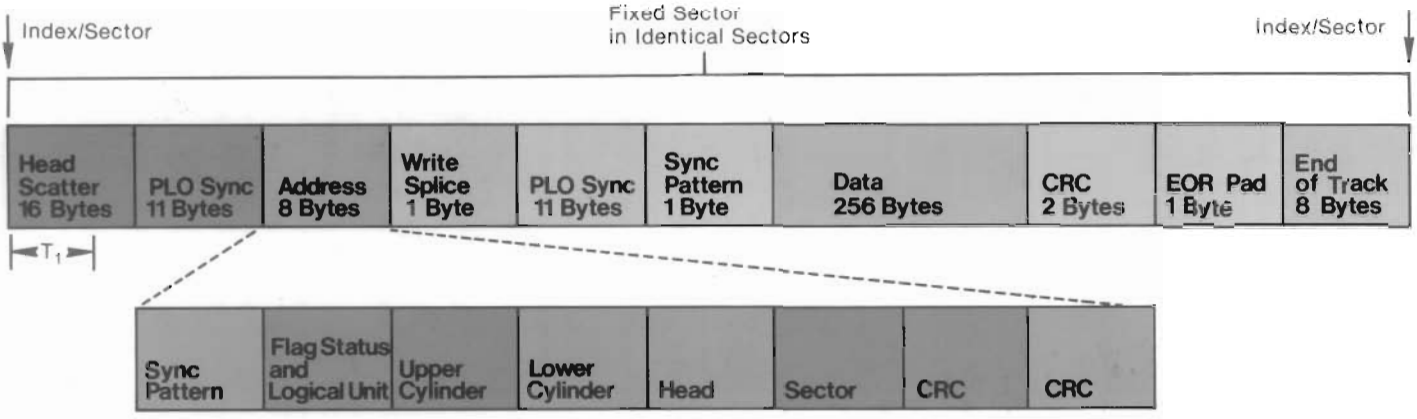
- Buffer size - 256 bytes
- Disc data rate up to 10 MHz
- 8 BIT bus transfer
- Capable of 6 MHz IEEE operation on S100
- Separate header with 2 byte check code
- I/O addresses - any 8 address block on even boundary
- Can be used in programmed I/O or interrupt mode
- Interrupts may jumper to any level
- Interrupts on seek and/or data transfer complete
- Two PC boards with 26 conductor ribbon interconnecting cable
- PC board size: 10" x 5.35" x 0.65"



XCOMP



Sector Format



Typical sector format showing separate header and data fields with check codes for high reliability and data security.

T_1 = Time between leading edge of Index/Sector and read gate is 8 bytes. A splice point may exist within this area.

Hard Disk Controller Specialists

At XCOMP we specialize in getting OEMs into hard disk systems. Our customers include the most successful companies in the microcomputer world. They have found XCOMP controllers to be a quick, cost effective way to incorporate hard disk without investing internal engineering time.

We provide across the board support for our customers. And the feedback they give us is that they get up and running faster and easier than they expected, with XCOMP.

Now you can move up to hard disk the easy way. Call XCOMP — we'll get you going with hard disk right now.

XCOMP

XCOMP, Inc.
7566 Trade Street
San Diego, CA 92121
Tel. (714) 271-8730 • Telex 182786