

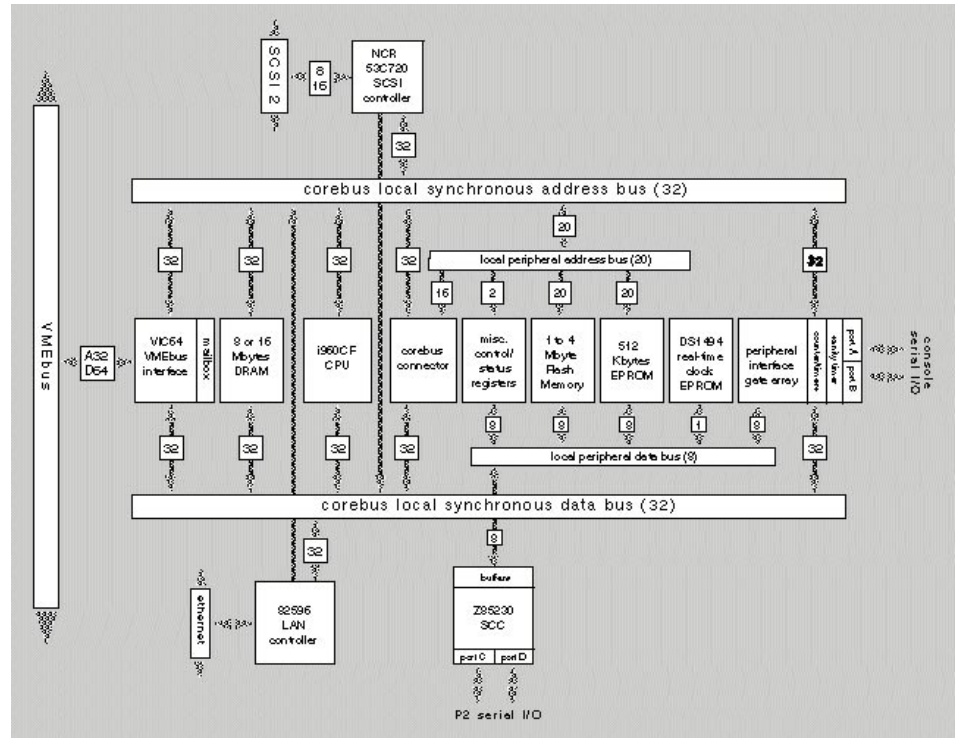
HK80/V960D VMEbus Single-Board Computer

- Intel i960® CF Processor
- Optimized VME64 Interface
- Flexible Corebus* Expansion Bus
- Up to 4 Mbytes Flash EPROM
- 4 Serial Ports
- 8 or 16 Mbytes of 2 Bank Interleaved DRAM
- VxWorks* Real-Time Operating System Support
- On-Board Ethernet and Optional SCSI II Interfaces

The HK80/V960D is a 33 MHz VME64 RISC CPU board based on the i960 CF processor. Featuring 4 Kbytes of instruction cache and 1 Kbyte of data cache, the board provides up to 16 Mbytes of DRAM with parity, 4 Mbytes of Flash memory, and a socket for up to 512 Kbytes of ROM. The board also features a 54 Mbyte/sec. VME64 system bus interface, a 106 Mbyte/sec. Corebus local bus/mezzanine card interface, on-card Ethernet, four serial ports, and a real-time clock with 512 bytes of battery-backed non-volatile RAM.

The V960D targets graphics-oriented applications like printing, image processing, and simulation that require high-speed I/O and memory-to-memory data transfers. The board proves ideal for accelerating key graphics operations such as BitBLT, and its high-speed data movement capability also makes it ideal for communications applications, which often require high-speed buffer manipulation.

Complementing the V960D's internal high-speed data movement capability is a powerful DMA-intensive I/O architecture that encompasses high-speed system bus, Ethernet, serial, and mezzanine bus interfaces. To maximize system bus throughput, the V960D provides a full 64-bit master/slave VME64 system interface based on the Cypress VIC64 VME Interface Chip. To boost VMEbus throughput, the board uses FIFOs to decouple its local bus and VMEbus



interfaces. This enables both the local bus and VMEbus to run at full speed, thereby enabling the board to achieve sustained VMEbus transfers of 54 Mbytes/sec.

The board's VME64 interface provides full Slot One system controller functions with support for all seven VMEbus interrupts. The V960D's VME64 interface also supports mailbox interrupts, which enable the V960D to be controlled remotely (for functions such as interrupt, and VMEbus lock) via VMEbus-specified addresses.

HOST SYSTEMS SUPPORTED:
Sun-3, Sun-4

PROCESSORS SUPPORTED:
i960 CF Microprocessors

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