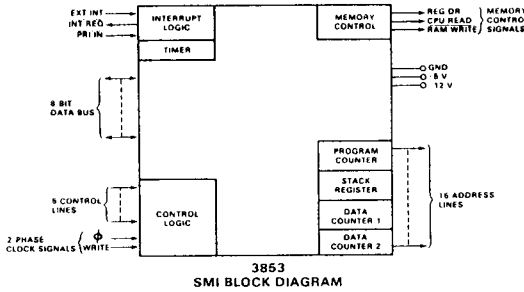


3852/3853 MEMORY INTERFACE

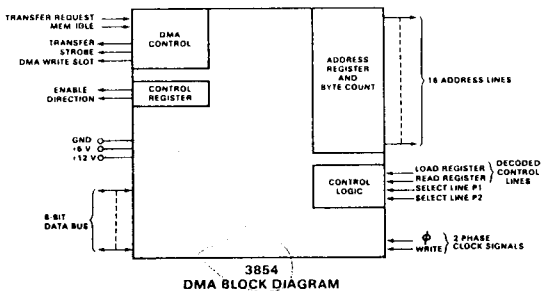
For applications requiring more than the 64 byte RAM located on the CPU, two memory interface circuits are included in the F8 set. Each device generates the 16 address lines and the signals necessary to interface with up to 65K bytes of RAM, PROM or ROM memory. Either device may be used in conjunction with standard static semiconductor memory devices.

The Static Memory Interface (SMI) contains a full level of interrupt capability and a programmable timer. The Dynamic Memory Interface (DMI) contains all of the logic necessary to refresh MOS dynamic memories without degrading the system throughput time. The F8 DMI can also interface with static memories when desired.

3



3854 DIRECT MEMORY ACCESS



Fairchild's Direct Memory Access (DMA) device sets up a high speed data path to link F8 memory with peripheral electronics. The F8 DMA circuit, when working in conjunction with the F8 DMI, does not require overhead electronics to keep track of memory addresses, bytes transferred and handshaking signals. The data transfer is initiated by the CPU under program control. Once started, the DMA transfer will continue without CPU intervention. The CPU can sense the enable line of the DMA to determine the completion of a transfer. The entire DMA transfer will take place without halting the central processor.

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