F200-L 16-BIT MICROPROCESSOR SYSTEM

T-52-33-25

F220-L

- Supports F200-L microprocessor
- One megaword addressing capability
- Severe environmental specification includes radiation hardness

The F220-L Memory Paging Controller has been designed for operation under adverse conditions in a wide range of industrial, scientific, defence and aerospace applications. F220-L will be available in a choice of temperature ranges including commercial 0°C to 70°C and Full Military −55°C to +125°C and will also be supplied to BS9000 Full Assessment and Level S2 quality standards.

The F220-L is fabricated using the advanced FAB-2 bipolar process and therefore combines high operating speed with an outstanding level of radiation hardness, a feature of particular significance in defence and aerospace systems.

F220-L has been designed for a high degree of commonality with the existing F100 product range, and uses the same F100 input/output bus, the same control signals and can interface to standard F100 card modules.

The F220-L Memory Paging Controller is a special purpose unit that increases the addressing capability of F200-L. F200-L, the latest microprocessor from Ferranti Computer Systems is a high performance design with a basic addressing range of 64K. F220-L dramatically increases this range, enabling F200-L to access a total of up to one megaword.

F200 memory can be organised as a page system with one base page and up to 31 other pages, each consisting of a 32K memory block. F220-L is connected to each of these memory pages via page enable lines. In a simple configuration F220-L will access the base page and five other pages. F220-L can access all 32 pages, to give a total one megaword, when external decode logic is added to the system.

F220-L can also provide paged addressing for up to 6 input/output modules in the system, which interface to the Memory Paging Controller via the DMA daisy chain. The ability of F220-L to handle memory requests from both the F200-L and input/output peripherals is a significant advantage to the designer, greatly simplifying the configuration of sophisticated real-time systems.

F100 SOFTWARE

There is a comprehensive set of program development and testing aids for use with F100 Systems:

  Cross Product Development Software
  Resident Development Software
  Coral 66 Compiler
  Subroutine Library
  Hardware Test Programs

For detailed information on the F100-L and F200-L Microprocessor system please contact:

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