Force Computers CPU-30BE/16

SYS68K Single Board Computer

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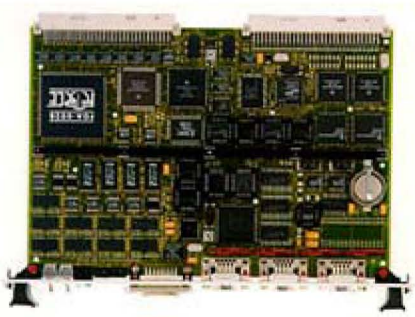
SYS 68K CPU-30

Low to mid-range 68K performance for control applications

Benefits



The CPU-30 provides an ideal platform for embedded applications where real-time response is crucial. The CPU-30 is targeted at low- to mid-range industrial applications and allows 68K users to protect their software investments while moving to the newest component technology and guaranteeing longevity of supply. The CPU-30 is supported by a broad and mature range of real-time OS including VxWorks, pSOS+, VRTX-32, OS-9 and LynxOS.

Solid performance in a single slot.

The MC68030 is binary compatible to the 680x0 family series and therefore ensures that all the existing 680x0 user software can run on the CPU-30. The CPU-30 is a solid performing, fully featured single board computer for real-time embedded control applications.

SPECIFICATIONS ▶

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SYS 68K CPU-30

Specifications

1. **Processor**
   1. MC68030 at 25 MHz with MMU
2. **Coprocessor**
   1. MC68882 at 25 MHz
3. **Cache**
   1. Data and Instruction, each 256 KByte
4. **DMA Controller**
   1. On-board via the FGA-002B
5. **Shared Memory**
   1. 16 MByte DRAM with Byte Parity
6. **System Flash**
   1. 4 MByte, 32-bit
7. **Boot Memory**
   1. Two sockets for up to 512 KByte flash memory devices per socket
   2. Standard: 128 KByte
8. **Local SRAM**
   1. Standard: 32 KByte
9. **SCSI-2**
   1. MB 87034, DMA support, I/O on P2
10. **Ethernet**
    1. Am 79C90, 10Base5 on front panel
11. **Floppy Disk**
    1. WD 37C65C, I/O routed to P2
12.

Serial I/O

1. Two channels via 85C30 SCC, preconfigured as RS-232 RS-422 and RS-485 as field upgrade option I/O on front panel or P2

13. **Parallel I/O**
    1. 20-bit available via optional 5-row VMEbus P2 connector
14. **RTC**
    1. Interrupt capability, battery back-up
15. **Counters/Timers**
    1. Two 24-bit, 500 ns resolution
16. **Firmware**
    1. VMEPROM installed
17. **VMEbus Interface**
    1. 32-bit master/slave
        1. **Master**
            1. A32, A24, A16 D32, D16, D8 UAT, RMW
        2. **Slave**
            1. A32, D32, D16, D8 UAT, RMW
        3. **Interrupt Handler**
            1. 7 VME levels
        4. **Arbiter**
            1. Single-level, Arbitration watchdog
        5. **Mailbox**
            1. 8 Interrupts
        6. **Force Message Broadcast**
            1. 1 FIFO with 8 Byte
            2. 1 FIFO with 1 Byte
        7. **P2 Connector**
            1. 3-row, option: 5-row

18. **Additional Features**
    1. Reset and abort switches, Status LEDs, Watchdog Timer
19.

Power Consumption(CPU-30DZBE without Ethernet connection)

1. +5V 3,0 2,4 A
2. +12V 0,1 A
3. -12V 0,1 A

20. **Environmental Conditions**
    1. **Temperature (Operating)**
        1. 0^{o}C to $+55^{o}$C
    2. **Temperature (Storage)**
        1. -40^{o}C to $+85^{o}$C
    3. **Humidity**
        1. 0% to 95% noncondensing
21. **Measurements**
    1. 6U VMEbus form factor
    2. 1 VMEbus slot

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