



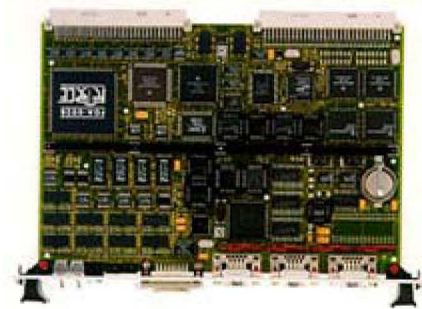
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## SYS 68K CPU-30

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 ▶



PERFECT FIT

COMPACTPCI

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## PRODUCTS & SERVICES

VME PRODUCTS

### 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

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### **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

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### **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

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### **Additional Features**

1. Reset and abort switches, Status LEDs, Watchdog Timer

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**Power Consumption**(CPU-30DZBE without Ethernet connection)

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

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**Environmental Conditions**

1. **Temperature (Operating)**

1. 0°C to +55°C

2. **Temperature (Storage)**

1. -40°C to +85°C

3. **Humidity**

1. 0% to 95% noncondensing

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**Measurements**

1. 6U VMEbus form factor
2. 1 VMEbus slot