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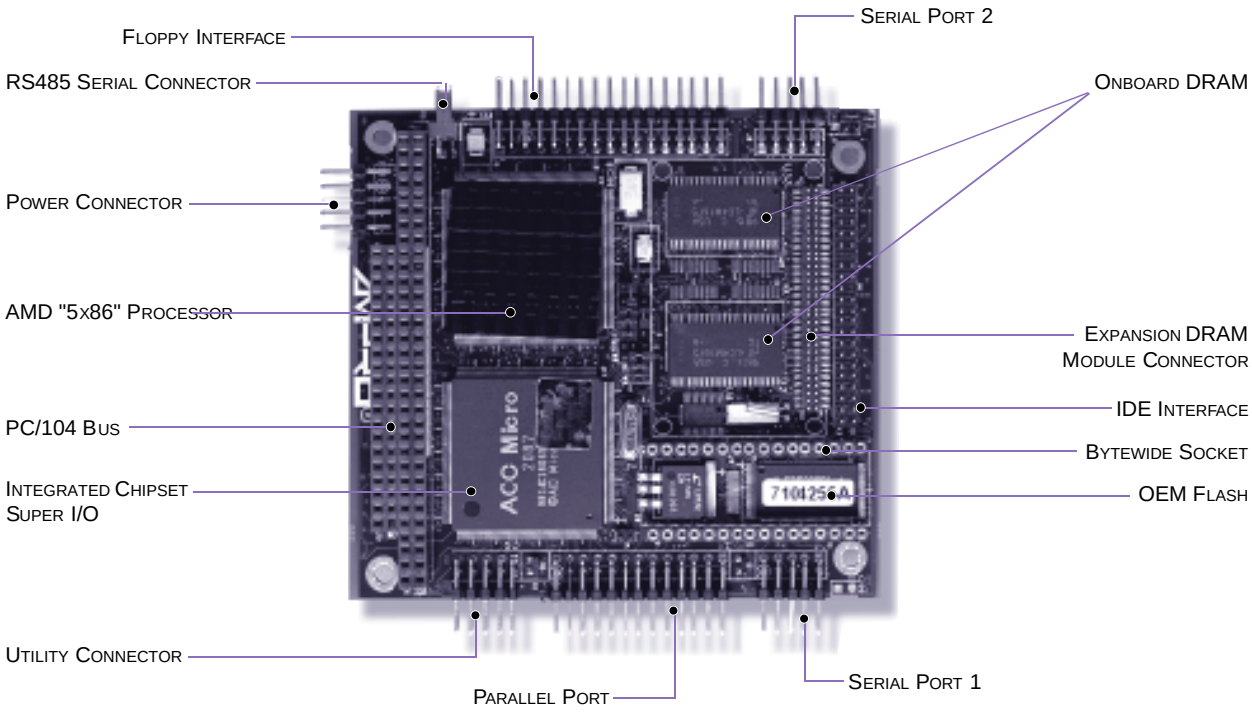
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Find the *Adlink / Ampro Computers CM2-4DE-Q-74* at our website: *Click HERE*

CM2-4De

CoreModule™/4DXe • *High Performance PC/AT-compatible PC/104™ compliant CPU module*



The new CoreModule/4DX*e* provides high-performance "5x86" processing power and PC/AT compatibility in a compact, preconfigured subsystem module. Within just 14 square inches of space, the CoreModule/4DX*e* includes the equivalent functions of a PC/AT motherboard plus several additional expansion cards. Performance-critical embedded applications that formerly required chip-based custom designs can now benefit from an off-the-shelf module with the power of a 133 MHz 32-bit AMD "5x86" CPU, along with hardware and software standards like PC/AT and MS-DOS compatibility.

The CoreModule/4DX*e* is designed to meet the demands of embedded systems through its extremely compact design, low power consumption, +5V-only operation, wide operating temperature range, and high reliability.

CONFIGURATION FLEXIBILITY

The CoreModule/4DX*e* can be used as a macrocomponent, plugged into a proprietary application board, or it can be combined with PC/104-compatible expansion products to form compact, highly integrated control subsystems. Multiple modules can be stacked together without the cost and space penalties of additional mounting hardware.

www.ampro.ru

CM2-4De

SPECIFICATIONS

PC MOTHERBOARD FUNCTIONS

CPU
- AMD "5x86" (486DX5) CPU, 133 MHz internal clock rate; jumper selectable to 100 MHz (66 MHz version also availble)

MEMORY
- 4 or 16 Mbytes directly surface mounted, expandable to 64 Mbytes via socketed DRAM module

SYSTEM CONTROLLERS
- 7 DMA channels (8237 equivalent)
- 14 interrupt channels (8259 equivalent)
- 3 programmable counter/timers (8254 equivalent)

KEYBOARD
- PC/AT-compatible keyboard port
- Speaker port with 0.1 watt drive

REAL TIME CLOCK
- Real time clock with CMOS RAM (MC146818 equivalent); requires external 3.0 - 3.6V battery
- Battery-free operation option

BIOS
- Award ROM-BIOS with Ampro embedded-PC enhancements

ADDITIONAL ONBOARD FUNCTIONS

SERIAL
- Two RS232C serial ports with full handshaking
- One port is jumper-configurable for RS232 or RS485
- Both ports implemented using 16C550 equivalent with 16 byte data FIFOs

PARALLEL
- Parallel printer port with bidirectional data lines

FAST IDE
- Supports 1 or 2 IDE hard disk drives
- Low profile 44 pin compact 2 mm connector

FLOPPY
- Supports 1 or 2 drives

BYTEWIDE SOCKET
- Usable with 32K - 1 Mbyte EPROMs, 32K - 512K Flash EPROMs, 32K - 512K SRAMs, or 32K - 512K NOVRAMs
- Configurable as 64K, or 128 Kbyte window, addressed in the range D0000-EFFFFh
- Usable with DiskOnChip2000™ read/write Flash SSD device
- SRAM backup using off board battery

OEM FLASH OPTION
- Onboard 1 Mbyte OEM Flash
- 960 Kbytes available for OEM use (balance used by system BIOS)
- Configurable as 64 Kbyte window, addressed in the range D0000-DFFFFh or E0000-EFFFFh
- SSD 5.31 Support Software converts into an in-system programmable read only SSD device
- OEM Flash TrueFFS software converts into a full read/write solid state disk drive (not usable simultaneously with DiskOnChip2000™)

CONFIG EEPROM
- 2K bit configuration EEPROM, with 512 bits for OEM use
- Supports battery-free capability

WATCHDOG TIMER
- Utilizes real-time clock alarm function
- Timeout triggers hardware reset or non-maskable interrupt

MECHANICAL

SIZE
- 3.6 x 3.8 x 0.9 in. (90 x 96 x 23mm); PC/104 compliant form-factor (Includes stackthrough pins. Please refer to PC/104 specification for stacking and other dimensions.)

BUS
- 16-bit PC/104 bus

POWER
- Requirements (typical with 4 Mbytes RAM): +5V ±5%
  - — 133 MHz: 1170 mA active / 210 mA sleep
  - — 100 MHz: 930 mA active / 150 mA sleep

ENVIRONMENTAL
- Operating temperature: 0° to 70° C standard; –40° to +85° C extended (special order) Note: additional airflow or heatsinking required to maintain 85° C maximum CPU case temperature.
- 5% to 95% relative humidity, non-condensing
- Storage temperature: –55° to +85° C
- Weight: 3.4 oz. (96 gm)

NOTE: Contact Ampro regarding custom configurations and special order options.

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