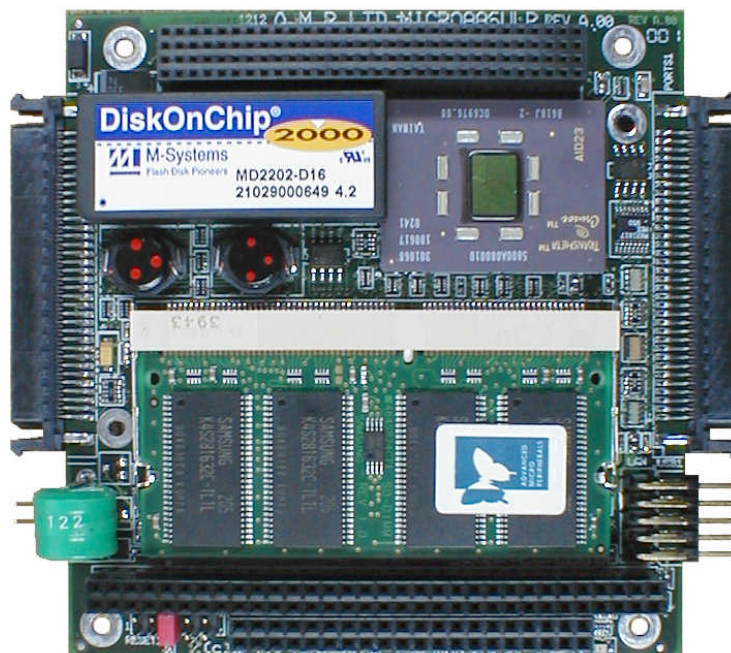


Micro886ULP Ultra Low Power PC/104+ Crusoe Computer



General Description

AMPs **Micro886ULP** is an ultra low power Pentium-III class computer on a standard 3.6inx3.8in PC/104+ footprint. The Micro886ULP series are 100% compatible with **MSDOS, Linux, Windows95/98/NT/2000/CE/XP** and a wide range of RTOS such as **QNX, VxWorks**, etc. The Micro886ULP series feature ultra low power **Crusoe** processors which are **x86** code compatible with high computing performance and ultra low power and **FANLESS** operation at up to **1GHz** clock speeds. In addition to standard peripheral controllers for disks, Keyboard and Mouse, and serial ports, the Micro886ULP features **Fast Ethernet** Controller capable of operating at 10/100MBits/sec. The built-in FlashDisk option provides Hard Disk emulation using M-Systems Disk-on-Chip (DOC). The Micro886ULP provides unprecedented performance/power consumption ratio and reliability for embedded and wearable computer applications.

Features

- 100% PC-AT compatible
- **FANLESS** operation at up to 1000MHz
- 640KBytes high performance Cache
- 128 - 512 MBytes SDRAM
- 16M - 1GBytes DOC FlashDisk
- 10/100MBit Ethernet
- Serial, Parallel, Floppy, EIDE and USB
- Single, low profile PC/104+ module
- PC/104+ and PC/104 Expansion
- Single +5V power

Applications

- Medical Instrumentation
- Wearable Computer
- Battery-powered Equipment
- Portable Test Equipment
- Rugged Harsh Environment Applications
- Industrial Automation
- Thin Server/Client Applications
- Embedded Internet/Intranet Appliance
- Multi-node Internet Servers
- In-vehicle Entertainment Systems

*Rev A.12 Subject to change without notice



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Processors		Crusoe TM5800 series x86 CPUs at up to 1000MHz 128KBytes L1 Cache 512KBytes L2 Cache
Memory	SDRAM FlashROM	128 -512MBytes SDRAM 512KBytes (for BIOS) 1MBytes (for Code Morphing Software)
Standard Peripherals	Serial Ports Disk/CD-ROM KeyB/Mouse	2 RS232 port with FIFO at 115.2KBaud Supports Ultra-DMA Hard Disk and CDROM drive Supports 1 floppy disk drive Supports PS2 Keyboard and PS2 Mouse
Extended Peripherals	FlashDisk Network USB Watchdog	Supports 16MBytes to 1GBytes Disk-on-Chip FlashDisk Up to 4GBytes external CompactFlash disk 10/100MBit PCI Ethernet Controller 1 on-board USB port PCI bus-mastering USB Hub Controller Fully compliant with OpenHCI standard 1.6sec Watchdog timer, Power supply monitor
Enhanced Power Management		CoolRun(tm) Power Management ACPI compliant Dynamic Clock Stop Power On Suspend
ExpansionPC/104	Standard 16-bit stackable PC/104 bus PC/104 Plus	32-bit stackable embedded PCI bus 132MBytes/sec data bandwidth 4 spare REQ/GNT for 4 PCI Masters 3.3V and 5V tolerant PCI bus
Physical	Size Temperature Rel. Humidity Power MTBF	3.6in x 3.8in x 0.4in PC/104 format Top and Bottom stackable 0 to 60degC operating (-40 to 85degC option) -40 to 95degC storage 5% to 95% non-condensing (optional conformal coating) Less than 9W with 800MHz CPU + 512MBytes SDRAM Single +5V DC regulated power Greater than 150,000 Hours MIL-HDBK-217 at 25degC
Ordering Information	Micro886ULP8-sss/kkk-L-(Ext) where	sss = speed (667, 800, 933 or 1000) in MHz kkk = memory (128, 256 or 512) in KBytes L = with 100MBit Ethernet Ext = Extended Temperature (option)

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