## MIGHTY MITE™ CARRIER BOARD FOR THE PENTIUM® & 486 CARDPCs™



**The Mighty Mite configured with
233MHz Pentium CardPC
(3.5" disk drive not included)**

### MIGHTY MITE FEATURES

- 4" x 5 ¾" Ultra-compact single board computer
- Fits in 3.5" Hard Disk Drive Footprint
- Configurable with Mobile Pentium or 486 CardPC
- AMD Ethernet controller
- Four COM/Serial ports
- Parallel port with header
- Mouse/Keyboard port
- USB port (233 MHz Pentium CardPC only)
- SVGA CRT port
- 41-pin connector for TFT & DSTN LCDs
- Socket for M-Systems DiskOnChip®
- PC/104 connector for easy expansion
- IDE and FDD ports
- On board battery backup

### CARDPC FEATURES

- 16MHz 486 through 233MHz Intel Pentium processor
- Intel 430TX Chipset (Pentium models)
- Industry-standard PhoenixPICO BIOS™
- Memory configurations up to 128 Mbytes[1]
- Trident Cyber9320 PCI graphics accelerator
- 1 MByte VRAM
- On board National Super I/O

### DESCRIPTION

Cell Computing's Mighty Mite single-board computer delivers a complete ISA single-board system in the footprint of a standard 3.5-inch hard disk drive. The Mighty Mite can be configured with Cell's CardPC micro-motherboards to implement low end 486 through 233MHz Mobile Pentium w/MMX systems. The CardPC slides into the Mighty Mite's 236 pin EASI connector, allowing easy reconfiguration and field upgrades.
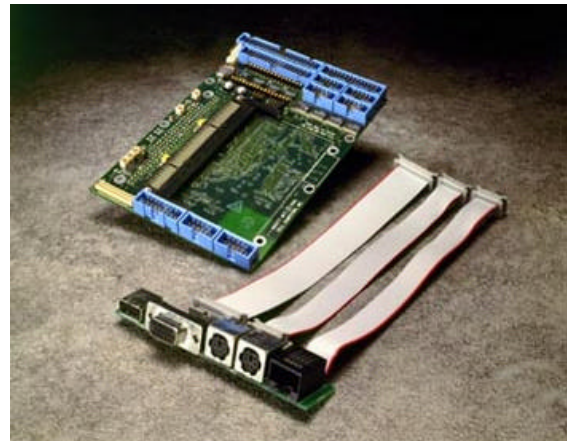
Each Mighty Mite SBC is fully network-ready, and is packed with connectors and headers for simple implementation in embedded designs. The Mighty Mite is also configured with a socket for M-Systems DiskOnChip® mass storage, offering the option of a flash-based solution for diskless applications.

The Mighty Mite achieves an extremely small footprint by leveraging the Cell Computing CardPC – the industry's smallest Pentium-based ISA motherboard. These miniature computing engines are targeted at embedded PC applications needing high performance and large memory capacity in the smallest possible space. The Mighty Mite can be configured with any of the following CardPC products:

| CardPC Model | Case | Memory |
|---|---|---|
| 16MHz 486GX | Enclosed | 2, 4, or 8MB |
| 33MHz 486SX | Enclosed | 4 or 8MB |
| 33MHz 486SX | DIMM Socket | 4MB on board + 4, 8, 16 or 32MB DIMM |
| 100MHz 486DX | Enclosed | 4 or 8MB |
| 100MHz 486DX | DIMM Socket | 4MB on board + 4, 8, 16 or 32MB DIMM |
| 166MHz Pentium | DIMM Socket | 16, 32, 64, or 128MB DIMM |
| 200MHz Pentium | DIMM Socket | 16, 32, 64, or 128MB DIMM |
| 233MHz Pentium | DIMM Socket | 16, 32, 64, or 128MB DIMM |

## MIGHTY MITE SBC SPECIFICATIONS
## (AS CONFIGURED WITH P233 CARDPC)

| ITEM | SPECIFICATION |
|---|---|
| **CPU** | Pentium 233MHz |
| **CHIPSET** | Intel 430TX |
| **LAN** | |
| Ethernet Controller | AM79C961A |
| **POWER** | |
| Power Supply | 5V |
| Operating (Max) | 7.3W |
| Suspend Mode (Max) | 0.7mW |
| **OPERATING TEMP** | |
| Ambient ($T_A$) | 0-50°C |
| Case ($T_C$) | 0-85°C |
| **MEMORY** | |
| DIMM | 16, 32, 64, 128MB[1] |
| Flash ROM | 512KB |
| **DISPLAY** | |
| Graphics Controller | Trident Cyber9320 |
| Bus Interface | PCI |
| VRAM | 1MB |
| Max CRT Resolution | 1024 x 768, 256 colors |
| Max LCD Resolution | 1024 x 768, 256 colors |
| **PERIPHERAL I/O** | |
| Keyboard | Mitsubishi M38802 |
| FDD | National PC 87334 |
| IDE | National PC 87334 |
| COM1, COM2 Serial Ports | National PC 87334 |
| COM3, COM4 Serial Ports | National PC 16552 |
| Parallel Port | National PC 87334 |
| **PHYSICAL** | |
| Footprint | 4 in x 5.75 in |
| Weight | 5 oz |
| **CONNECTORS, HEADERS & SOCKETS** | |
| Ethernet | 10 pin header |
| COM Serial ports | 4 (four) 10 pin headers |
| Parallel port | 26 pin header |
| ISA bus connection | PC104 connector |
| DiskOnChip® or Flash ROM | 32 pin dip socket |
| IDE | 40 pin header |
| FDD | 34 pin header |
| LCD | 41 pin connector |
| Keyboard/Mouse/USB | 10 pin header |
| CardPC | 236 pin EASI connector |
| Power | 4 pin connector |
| Speaker | 2 pin header |
| Suspend/Resume | push button |
| Reset | push button |

[1] 128MB DIMMs under qualification

**Mighty Mite Connector Board**

### CORPORATE SALES OFFICE

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