

**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 3/4" 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<sup>1</sup>
- 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.

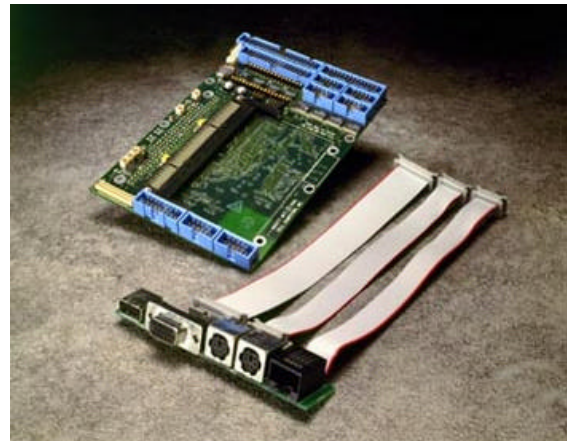
Each Mighty Mite SBC is fully network-ready, and is packed with connectors and headers for simple implementation in embedded designs. The Mighty Mite is also configured with a socket for M-Systems DiskOnChip® mass storage, offering the option of a flash-based solution for diskless applications.

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
<b>CPU</b>	Pentium 233MHz
<b>CHIPSET</b>	Intel 430TX
<b>LAN</b>	
Ethernet Controller	AM79C961A
<b>POWER</b>	
Power Supply	5V
Operating (Max)	7.3W
Suspend Mode (Max)	0.7mW
<b>OPERATING TEMP</b>	
Ambient (T <sub>A</sub> )	0-50°C
Case (T <sub>C</sub> )	0-85°C
<b>MEMORY</b>	
DIMM	16, 32, 64, 128MB <sup>1</sup>
Flash ROM	512KB
<b>DISPLAY</b>	
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
<b>PERIPHERAL I/O</b>	
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
<b>PHYSICAL</b>	
Footprint	4 in x 5.75 in
Weight	5 oz
<b>CONNECTORS, HEADERS &amp; SOCKETS</b>	
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


**Mighty Mite Connector Board**
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<sup>1</sup> 128MB DIMMs under qualification