



# Minerva Technology Inc.

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Minerva Technology Inc. is developing an Intel XScale based single board computer (MT02), capable of running a full (non-embedded) Linux kernel. We are constructing a development board that will allow us to port Linux and write device drivers. In addition, we will concurrently develop and test additional hardware peripherals. The MT02 prototype will be returning from fabrication late August 2003. Our projected release for the final system design is early 2004.

## MT02 Development Version Features:

- Intel XScale PXA255 CPU, 200MHz - 400MHz
- 64MB/128MB of onboard memory, using two/four SDRAM chips
- 8MB/16MB of Intel Advanced Boot Block+ flash memory
- Two PCMCIA or CF sockets
- 10Mbps or 100Mbps Ethernet, developed as an external peripheral
- High-efficiency three output power supply (allows 2.5V memory signaling)
- Three serial UARTs (one full 8-wire, one 4-wire, one TX/RX)
- USB support
- Physical dimensions: 4.5" wide x 5" long, 6 layer PCB

## MT02 Final Version Features:

- Intel XScale PXA255 CPU, 200MHz - 400MHz
- 64MB/128MB/256MB of onboard memory
- >= 64MB Intel Synchronous StrataFlash
  - Dramatically higher read throughput
  - Allows efficient kernel execution directly from flash memory
- Two PCMCIA or CF sockets (micro drive compatible)
- Onboard 10Mbps or 100Mbps Ethernet
- >= 24hr Smart UPS
  - Linux power management driver interface
  - External power, battery capacity monitoring
- Independent hardware watchdog
- High-efficiency three output switching power supply
  - Supports Intel dynamic core voltage/CPU speed control
- Three serial UARTs (one full 8-wire, one 4-wire, one TX/RX)
- USB support
- Specifications customizable by client

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