

Omni-EP

- 200 Mhz Arm Processor
- 10/100 Mbit Ethernet
- 32 MegaBytes RAM
- 16 MegaBytes Flash
- 16 Digital I/O Lines
- 2 Port USB 2.0 (One external to Enclosure)
- SPI Bus
- AC97 Amplified Audio Out
- Battery Backed Clock Calendar
- Optional Enclosure
- 2 Serial Ports



84-0145
OmniEP

The OmniEP single board computer is ideal for the growing complexity of embedded applications. With its compact size there are a wide variety of features driven by the powerful ARM core. In addition to the standard 2 serial ports and 16 lines of digital I/O, the OmniEP brings both USB and audio capabilities to your application. The battery backed clock/calendar also comes standard, making sure your time sensitive programs have access to a reliable time.

Development is greatly expedited by the OmniEP. Programs can now be easily transferred and run from a simple USB Flash Pen drive, eliminating the need to wait for lengthy RS-232 file transfers. Expansion through the USB ports offers a wide range of possibilities, including wireless Ethernet capability, extra Flash memory, and more. Peripheral expansion also becomes easy through use of the SPI port, allowing simple access to many proprietary devices. Audio capabilities are also included, allowing for both audio recording and audio playback.

Additionally, the OmniEP is pre-loaded with the powerful Linux operating system, adding ease to development and an open source operating system that can be modified by the user. It also brings with it the power of Linux Module programming, allowing the root user to modify the kernel while it is running.

The OmniEP Development Kit (99-0145) gives the user a bootable Knoppix environment, giving access to the powerful GNU C/C++ cross compiler and sample programs. Additionally the kit includes an OmniEP microcontroller, console cable, 110Vin AC adapter, schematic, and cabling connectors.

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Specifications

Processor	200Mhz Arm9 Processor
Operating System	Linux 2.6 Kernel
Memory	32 MB RAM, 16MB Flash
Ethernet	10/100 Megabit Ethernet
Serial Port 0	RS-232 + 3 handshaking or RS-232 TTL Level (Rx, Tx only)
Serial Port 1	RS-232 with no handshake lines
Digital I/O	16 Digital I/O lines (3.3V TTL) 16 interrupt capable (Level and Edge) Individually configurable
Audio	AC97 Headphone Capable Audio out
Other	Hardware Clock Calendar and Watchdog
Power	5V +/- 5% DC regulated, 2 Watts typical
Humidity	5 - 90% non-condensing
Temperature	-40 to + 70 C
Weight	88 grams
Dimensions	4.3" x 3.6" x 1.8"

1.0 Initial release.. - 12-2008 AY

