

# DATA

## Century Embedded Technologies

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# WebPAD™

## Linux Software Solutions

### Linux Kernel

- ▶ Based on leading 2.4 distributions
- ▶ PCMCIA and CF TCP/IP networking
- ▶ Serial and modem PPP
- ▶ RAM and flash file systems
- ▶ Hardware accelerated graphics
- ▶ All popular CPUs supported

### ViewML Internet Browser Family

- ▶ ViewML offers a variety of footprints:
  - ▶ ViewML—900K ROM, 4 MB RAM
  - ▶ ViewML Plus—4 MB ROM, 12 MB RAM
  - ▶ ViewML Ultra—38 MB ROM, 22–40 MB RAM
- ▶ HTML 3.2 support (HTML 4.0 in 2<sup>nd</sup> half of 2001)
- ▶ Support for frames, forms, GIF, JPEG, XBM, XPM, PNG, and BMP images
- ▶ Customizable user interface
- ▶ SSL Version 2/3 and Proxy support
- ▶ Limited JavaScript support (JavaScript 1.5 in 2<sup>nd</sup> half of 2001)

### Multimedia

- ▶ MP3 audio player
- ▶ MPEG1&2 digital video with streaming
- ▶ Image viewers
- ▶ Games

### SDK

- ▶ Source code and Runtime binaries
- ▶ Complete tool chain
- ▶ All required libraries
- ▶ Desktop emulation of target screen
- ▶ FLNX 2D, 3D, and TV widget set
- ▶ E-mail and telephone support
- ▶ Complete documentation

### Applications

- ▶ System configuration utility
- ▶ Network configuration utility
- ▶ Terminal emulator
- ▶ Load monitor
- ▶ iRDA file transfer
- ▶ E-mail client
- ▶ Clock
- ▶ Battery monitor
- ▶ Screentop keyboard
- ▶ Handwriting recognition

### Microwindows Graphical Operating Environment

- ▶ Small 64–225K footprint
- ▶ Xlib-like API for graphics functions
- ▶ Screen drivers for 1, 2, 4, 8, 16, 24, and 32 bits per pixel, grayscale and color palettes
- ▶ Full RGB color support, optimized palette bitmap drawing
- ▶ Unicode-16, Unicode-32, UTF-8, TrueType, and Adobe Type 1 font support
- ▶ Chinese National Standard GB2313 and Big5 character encoding
- ▶ Overlapping windows
- ▶ Anti-aliasing and alpha blending
- ▶ GIF, JPEG, XPM, XBM, PNG and BMP image format decoding, caching, and display
- ▶ Full arbitrary clip region, off-screen drawing, and blitting support
- ▶ Client/server and linked applications models support
- ▶ Shared memory option for fast client/server communications
- ▶ Task-to-task communications
- ▶ Screentop application and window manager/launcher
- ▶ Touch-panel calibrator

**The Century Embedded Operating Environment and Development Toolkit speeds WebPAD™ software development time and dramatically accelerates your time to market.**

Features found in this state-of-the-art operating environment and development toolkit include a complete Linux kernel, graphical runtime system including screentop and application manager, robust Internet browser, multimedia applications, and a complete cross-hosting development environment.

Based on Microwindows, the popular embedded Linux graphical API, and anchored by ViewML, the world's first open source Internet browser engineered specifically for embedded Linux, this toolkit and runtime environment contains all the fundamental tools and utilities required to build graphical applications for WebPAD devices.

Backed by fifteen years of software development, *Century Embedded Technologies*, a division of Century Software, Inc., is committed to providing the development tools and support required to create and maintain custom embedded applications.

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# The Century Embedded Operating Environment and Development Toolkit for Linux

## Powering graphical Linux applications for WebPAD devices.

### Embedded Linux Kernel

Based on leading 2.4 distributions, the Century Embedded Technologies' Linux kernel is enhanced with screen and touch-screen drivers, as well as PCMCIA and compact flash, TCP/IP networking, and other drivers required to perform the tasks associated with WebPAD devices.

### Microwindows Graphical Operating Environment

The Microwindows graphical operating environment brings many of the features of modern graphical windowing systems to the embedded programming community. Microwindows, unlike other windowing systems, has minimal disk and RAM requirements. Microwindows is designed to be very portable, and can run on a wide variety of software and hardware platforms.

### ViewML Internet Browser Family

The essential application for any WebPAD is the web browser. ViewML is a suite of browsers, each one optimized for the embedded Linux market. Each ViewML browser in the family offers a range of advantages in memory, disk size, compatibility, and feature sets. ViewML offers a range of solutions so it can fit your exact memory and storage requirements.



### Multimedia

Century Embedded Technologies has developed a multimedia suite consisting of tools and utilities that enable the creation of custom multimedia applications for your embedded platform. Based on MP3 audio and MPEG video, our software development kit allows the creation of custom applications and runtime technologies to fit many embedded multimedia needs.

### Software Development Kit

Our development toolkit allows easy modification and enhancement of existing applications, changing the appearance of the screen top, and creating custom applications seamlessly integrated into the web pad operating environment. The toolkit also includes a host emulation environment enabling the creation and execution of applications on the desktop without having the actual target device, saving development time and money.

**Century Embedded Operating Environment** Powering graphical Linux applications for WebPAD devices. Our environment delivers key applications that offer a head start in your WebPAD deployment. Along with handwriting recognition, screentop keyboard, and the ViewML Internet browser family, Century also provides multimedia applications including MP3 audio, MPEG video, and a software development kit. Century Embedded Technologies offers telephone and e-mail technical support, as well as complete documentation.

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