

PhoneSoft™ System Software Suite

Intelligent Software for Smart Cellular Telephones

P R O D U C T H I G H L I G H T S

PhoneSoft Features

- Complete turn-key software suite for intelligent cellular phones
- Tightly integrated software reduces design time & product cost
- Intuitive graphical user interface provides easy access to available options and features
- Traditional dialing capabilities including deep number redial
- Standard PDA applications - calendar, calculator, clock, scheduler
- Optional applications for FAX, EMAIL, headline news, & stock quotes

PCMCIA Support

- Supports the use of memory cards for recording voice or transferring data
- Allows the use of I/O cards for communications

System BIOS

- Support for multiple processor types
- Fully customizable for unique hardware designs

Power Management

- Fully integrated into the PhoneSoft architecture
- Implemented to meet the stringent power demands of portable phones
- Optional Smart Battery Software available

PhoneSoft Advantages

- Complete offering
- Customizable
- Architected to meet strict cost targets for hardware

Smart Cellular Telephones offer exciting new possibilities in the rapidly growing mobile communications market. By integrating computing and communication features, users can perform a variety of tasks that were previously unavailable with a single device. SystemSoft's PhoneSoft™ system software suite provides the cellular telephone manufacturer with a complete solution to quickly enter this fast growing market with a competitively differentiated product.

Total Software Solution

PhoneSoft is a total software environment from the leader in portable software technology. It includes firmware, system software, and application modules. These include PCMCIA Software, BIOS and Power Management Software, a complete DOS compatible Operating System, an independent core module that includes the GUI, Object and Message Management, as well as a complete set of applications. The architecture of PhoneSoft is extensively structured, allowing for easy customization and differentiation. PhoneSoft was designed specifically for Smart Phones, and provides all the essential functionality to be competitive in this class of product. Issues such as power management, memory size, and PCMCIA support have all been addressed in PhoneSoft.

PhoneSoft Applications

Folders

PhoneSoft provides easy access to all of its applications and functions through the use of folders. These folders, which are on-screen representations of paper folders that we are all accustomed to using, can be opened with the touch of a pointing device or a keystroke.

Menu Folder

The menu folder provides access to PhoneSoft's applications and system management functions, including:

- Access PhoneSoft applications
- View and set passwords for system and item-specific access
- Set system configuration options



PhoneSoft Main Menu



Menu Screen

Menu Folder continued

- Manage objects such as deleting, renaming, and moving files
- Display information on the PC card in the PCMCIA slot

Message Center

The message center folder provides a place to store, play, and manage audio messages.

- Record and save messages. Messages can be displayed with a graphical icon along with the date and time of the recording as well as a title.
- Use the communications device as an answering machine. Users can record a custom message, enable and disable the answering machine, specify the number of rings before answering, and specify the maximum length of incoming messages. Messages can be played by simply clicking on the desired message.
- Add paging capabilities via the PCMCIA slot. The message center keeps track of the number of currently stored pager messages allowing the user to easily access a desired message.

Phone Book

- A built-in phone book provides an easy method for storing and accessing telephone numbers as well as call logging data. The phone book can be used to:
 - Speed dial a number
 - Select a name to dial
 - Add a new name to the phone directory
 - Modify existing data
- *PhoneSoft* also provides a unique call logging system which automatically logs the time of the last call and maintains a history of call data associated with the dialed number.

World Clock

- This application can simultaneously display the current time for two time zones.

Calendar

- Displays a monthly calendar with the current day highlighted.

Appointment Book

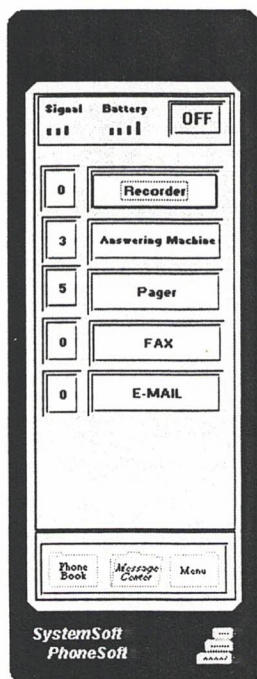
- The appointment book allows the user to keep track of those important dates and meetings.

Draw Pad

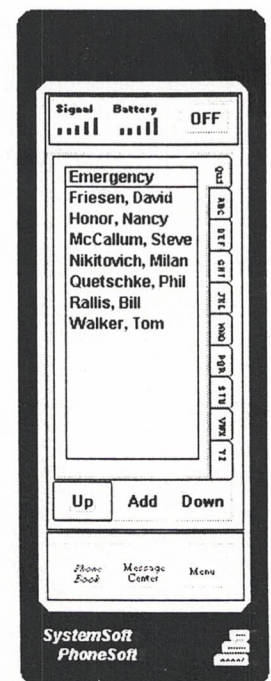
- This handy application lets the user input hand-written notes using a stylus or pen.

Calculator

- A convenient, easy-to-use, on-screen pocket calculator is provided.



Message Center



Phone Book

Add-In Future Applications

In addition to standard applications, *PhoneSoft* is designed to meet the needs of users with additional PIM and general purpose PC features. Some add-in applications that could further compliment *PhoneSoft*:

- Headline news download
- Stock quote capture
- Fax/E-Mail Capabilities
- Personal Computer Connectivity
- Extended Phone Book
- Appointment Book
- To Do Lists
- File Cabinet for storing messages, notes, or electronic mail

PhoneSoft System Software Components

PhoneSoft Architecture

PhoneSoft is both structured and hierarchical. *PhoneSoft* is object-based, and utilizes specific APIs for inter-process communication. The benefit of using this approach is that multiple applications can share the same code, and customizing the product is easily achieved.

PCMCIA

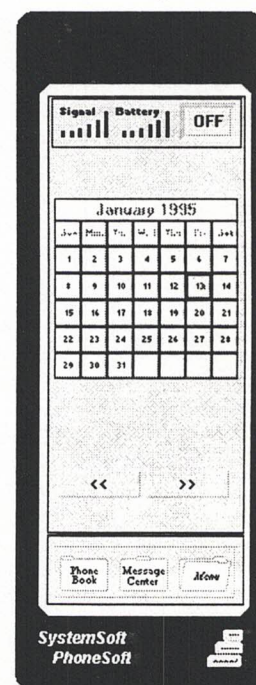
Providing a PCMCIA slot in the intelligent phone provides the user with the capability to "hot insert" a variety of peripherals. The PCMCIA memory cards provide an excellent vehicle for providing additional personalities and applications. Additionally, data can be transferred between a traditional computer and the intelligent phone by using PC SRAM and Flash Cards. A derivative of SystemSoft's industry-leading *CardSoft*™ Socket and Card Services is fully integrated within the *PhoneSoft* architecture. Power Management of PCMCIA devices is also supported.

Operating System Kernel

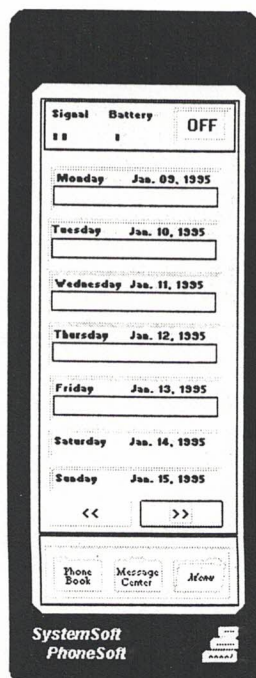
In order to allow OEMs to leverage existing application development, *PhoneSoft* incorporates an object-oriented, message-based OS kernel layered on top of standard DOS.

GUI and Database

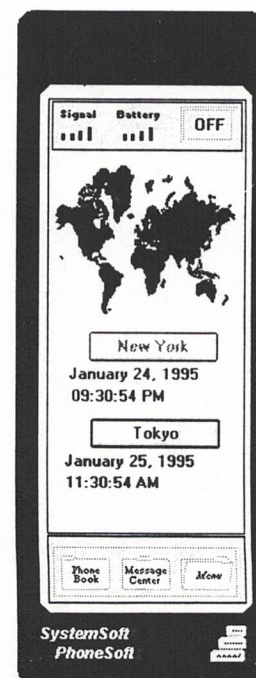
PhoneSoft's graphical user interface has been optimized for use with full-screen displays that are frequently found on smart phones. Applications and utilities make full use of icons and other graphics and are accessed via the single touch of a pen or keystroke. If the OEM chooses, they can easily modify the GUI to meet their specific needs.



Calendar



Appointment Book



World Clock

Memory Footprint

Since smart phones will have significant constraints in available memory, great attention has been taken to insure that *PhoneSoft* has an extremely small memory footprint. Many of the *PhoneSoft* modules are stored in a compressed format.

Smart Battery Software (optional)

Long battery life is essential in a smart phone. One of the most recent trends for providing battery life is the utilization of intelligent batteries in designs. SystemSoft has been the leader in providing the software for smart batteries in portable designs.

PhoneSoft includes a version of the SystemSoft Smart Battery Software System that has been specifically structured to meet the unique needs of incorporating intelligent batteries in Smart

SystemSoft's Experience

SystemSoft is a leader in providing software technology to system developers. By working closely with the OEM's engineering team, SystemSoft has participated in the development of numerous award-winning products. Many of the largest companies in computing, including Compaq, Dell, Digital, Hewlett Packard, Motorola, and NEC have chosen SystemSoft as their software partner.

In developing *PhoneSoft*, SystemSoft has been able to utilize many of its existing technologies. *PhoneSoft* incorporates specific implementations of SystemSoft's:

- BIOS
- *Maximizer™* Power Management Firmware
- *CardSoft* PCMCIA Software
- Smart Battery Software System

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