



TeleSoft International

Protocols For Developers



TsSmartPhone VoIP SDK

TsSmartPhone VoIP Software Development Kit (SDK) from TeleSoft International is a flexible, powerful and easy-to-use VoIP telephone software reference design suitable for a wide range of SIP-telephony-based products.

TsSmartPhone SDK provides the key VoIP features required for a variety of SIP-telephony-based products:

- ◆ VoIP softphones for OSs including Apple iPhone, Windows desktop, Windows Mobile, Linux, Nucleus and Symbian.
- ◆ IP desktop phones and specialized embedded devices for industries including entertainment, security, communications, transportation, and defense.

Simplifies Phone Design – Speeds Time-to-Market

Powerful features save valuable engineering resources and simplify VoIP product development. Complexity of SIP phone functionality is encapsulated via a simple stimulus-based API presented to the application.

Includes Full Function SIP Software

TsSmartPhone SDK incorporates the proven TeleSoft CompactSIP protocol stack. Written in C language, and using a minimal set of operating system calls, this SDK is highly portable to a wide range of desktop and embedded operating systems and environments.

CompactSIP Features

CompactSIP is a modular, high performance, easy-to-use SIP stack:

- ◆ Ideal for on-chip & embedded applications
- ◆ Micro system memory size 75KB-150KB
- ◆ Flexible, full-featured core
- ◆ Modular architecture
- ◆ Hardware independent
- ◆ OS independent
- ◆ IETF Conformant (3GPP/IMS optional)
- ◆ Written in ANSI C for ease of portation

Applications

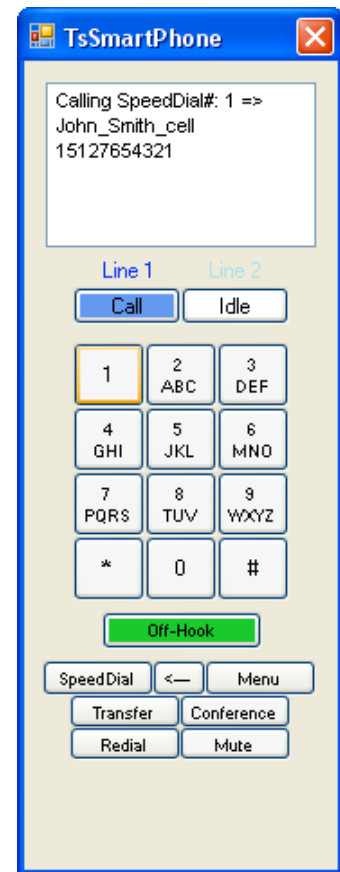
TsSmartPhone is ideal for cost and memory sensitive applications:

- ◆ Mobile SmartPhones
- ◆ VoIP wired phones
- ◆ PDAs and Pocket PCs
- ◆ Mobile Internet Devices
- ◆ Industrial embedded VoIP phones
- ◆ Security VoIP phones

TsSmartPhone User Interface Features

Comprehensive set of voice phone functions including:

- ❖ Multiple line appearances
- ❖ CallerID
- ❖ Call Waiting
- ❖ Call Hold
- ❖ Call Transfer
- ❖ SpeedDial
- ❖ Redial
- ❖ Mute
- ❖ VoiceMail Message Waiting Indicator
- ❖ 3-Way Calling/Call Conferencing
- ❖ Star Commands
 - *67 CallerID Block
 - *69 Call Return
 - *72/*73 Call Forwarding
 - *77/*87 Anonymous Call Block
 - *78/*79 Do Not Disturb
 - *123 Access VoiceMail



Easy-to-Use

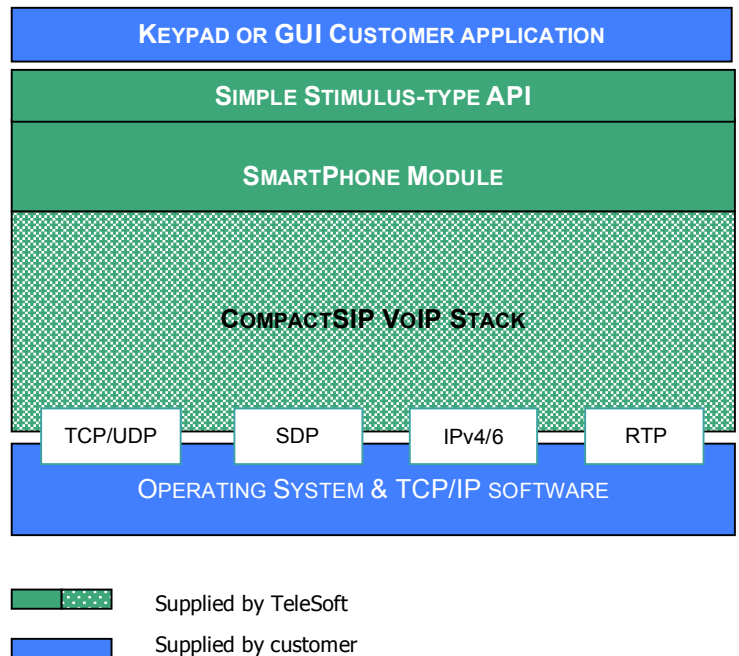
- ◆ Example intuitive UI code easily ported to all types of VoIP phones
- ◆ Easy end-user phone setup and administration

Simple, Stimulus-Based API

TsSmartPhone SDK API is driven by simple stimulus-type commands from the application such as "Press 1 key" or "Press Conference key." Application only has to know which button is pushed, processing of the command is handled by the intelligence in the SDK thus greatly reducing customer development to just creating a simple interface. Only a minimal knowledge of SIP or actual implementation of phone features is required.

TsSmartPhone stimulus-type virtual buttons:

- ❖ **Two line buttons - Lines 1 & 2**
- ❖ **Telephone 12 keypad**
- ❖ **Hookswitch & speakerphone**
- ❖ **SpeedDial**
- ❖ **Menu for phone configuration**
- ❖ **Transfer**
- ❖ **Conference**
- ❖ **Redial**
- ❖ **Mute**

**Media Engine Support**

TsSmartPhone is available pre-integrated with third party high quality media processing/codec software (e.g. GlobalIP Solutions) providing a packaged, pre-tested VoIP smartphone solution. Target platforms supported include ARM, ADI, x86, PC, MacOS, Linux, Windows Mobile, XP & Vista, iPhone, Symbian, Nucleus, MQX, VxWorks

CompactSIP provides a broad development and debugging environment:

- ◆ Easily ported to any environment
- ◆ Highly scalable – no built-in limits other than those required by the system itself.
- ◆ Ports include Linux, Micrium, MQX, Nucleus, iPhone, Symbian, ThreadX, VxWorks, Win XP, Win Vista & Win Mobile.
- ◆ Available pre-integrated to GlobalIP Solutions (GIPS) VoiceEngine for high quality voice and video solutions.
- ◆ Comprehensive example applications to demonstrate use of the APIs.
- ◆ Sample make files and imake scripts.
- ◆ Debugging & auditing features allow compile-time & run-time details for logging of messages & events.

CompactSIP is proven

- ◆ Extensively interop tested at multiple SIPits and against Asterisk, OpenSER and 35+ 3rd party devices.
- ◆ Routinely torture tested against IETF RFC 4475 & PROTOS test suites and in our own test labs.

Tailoring to Your Application:

- ◆ Modular structure allows optimum code matching to application.
- ◆ Licensing only the modules required enables the most cost effective solution.

For details on the CompactSIP software stack please refer to the [CompactSIP data sheet](#) on our web site.

TeleSoft International is a US-based, leading provider of "Protocols for Developers" for telecom applications. We license source code Protocol Stacks for VoIP, ISDN, Q.931, Q.921, QSIG, ML-PPP, PPP, Frame Relay, T1 RBS, E1 CAS R2 & X.25 to OEMs and ODMs worldwide.

Note: Due to continuous enhancements information in this datasheet is subject to change.

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